

**NASA
Reference
Publication
1245**

September 1990

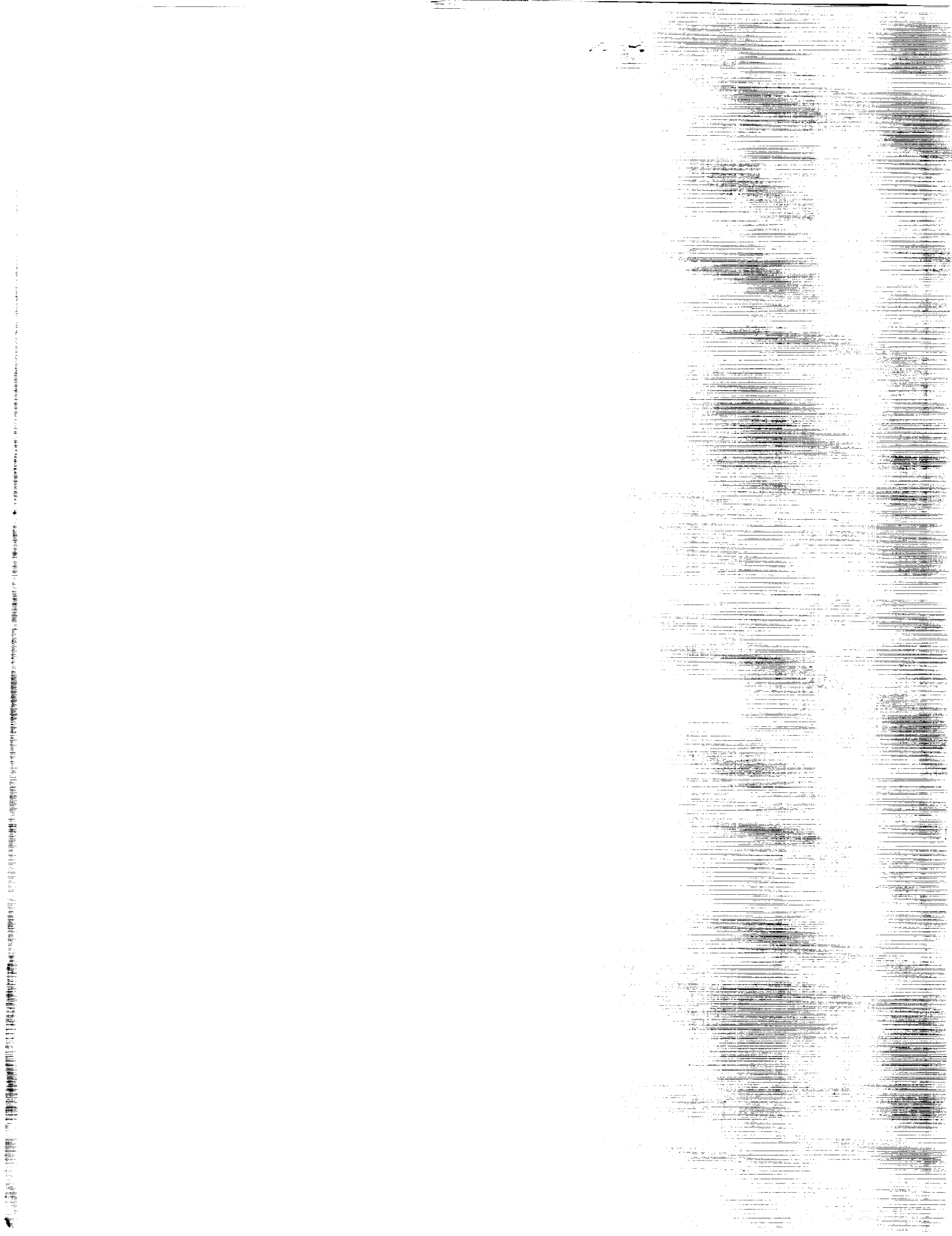
Spatial Interferometry in Optical Astronomy

Daniel Y. Gezari,
Francois Roddier,
and Claude Roddier

(NASA-RP-1245) OPTICAL ASTRONOMY (NASA) 247 03A CSCL 03A

Unclas
H1/89 0305018

NASA



**NASA
Reference
Publication
1245**

1990

Spatial Interferometry in Optical Astronomy

Daniel Y. Gezari
*Goddard Space Flight Center
Greenbelt, Maryland*

Francois Roddier
and Claude Roddier
*University of Hawaii
Honolulu, Hawaii*

NASA

National Aeronautics and
Space Administration
Office of Management
Scientific and Technical
Information Division



TABLE OF CONTENTS

Introduction	iv
Conference List	v
A. REVIEW PAPERS	A-1
B. THEORY	
1. Imaging Theory	B-1
2. Speckle Interferometry	B-17
3. Speckle Imaging	B-22
4. General Interferometry (non-speckle)	B-28
5. Image Reconstruction Algorithms	B-39
C. EXPERIMENTAL METHODS AND INSTRUMENTATION	
1. Michelson Interferometry	C-1
2. Long-baseline Interferometry	C-3
3. Speckle Interferometry	C-11
4. Coherent Telescope Arrays	C-21
5. Infrared Techniques	C-27
6. Pupil-plane Interferometry	C-32
7. Atmosphere-related Experiments	C-35
8. Adaptive Optics	C-37
9. Instrumentation, Techniques and Facilities	C-39
D. ASTRONOMICAL OBSERVATIONS	
1. Stellar Sources	D-1
2. The Sun	D-16
3. Planets/Asteroids	D-18
4. Infrared Observations	D-20
E. SPACE INTERFEROMETRY CONCEPTS	
1. Space Interferometers	E-1
2. Interferometry with Large Space Telescopes	E-6
3. Lunar-based Interferometry	E-7
F. MASTER BIBLIOGRAPHY (<i>alphabetical order by first author</i>)	F-1

INTRODUCTION

Spatial Interferometry in Optical Astronomy is a bibliography of published research on the application of spatial interferometry techniques to astronomical observations at visible and infrared wavelengths. The key words "spatial" and "optical" limit the scope of this discipline, distinguishing it from astronomical radio VLBI interferometry, or spectroscopy using interferometric techniques.

Optical interferometry in astronomy has its roots in the 19th Century, yet it is a comparatively young field. The active period of experimentation and observation is scarcely two decades old (98% of the articles listed here have been published since 1970). A large and very active international research community has developed; over 70 conferences and workshops have been held during that period. Since much of the research has been published in the proceedings of those meetings and in specialized technical journals, rather than in the traditional astronomical literature, the extensive activity in this field has not been fully recognized.

Spatial interferometry has emerged among the next generation of proposed major space astronomy missions as one of the most promising candidates in the class of the Hubble Space Telescope. An optical interferometry observatory has also been identified with high-priority as one of the first scientific installations in a new NASA initiative for a proposed manned lunar base. The purpose of this document is to identify the large body of published literature in this field, to organize it into specific technical subject areas, and to make it accessible to a broad scientific/engineering community.

The first five sections of *Spatial Interferometry in Optical Astronomy* summarize research work in each of the major sub-fields of optical interferometry. The articles in each category are listed in chronological order (by year of publication) to show the evolution of the research (within each year the articles are organized alphabetically by first author; it was not feasible to include the exact date of publication in the data base). Section *A. Review Articles* contains a sample of articles presenting an overview of the field, although listings in other categories will also be found to be general in nature. *B. Theory* summarizes publications dealing with basic theoretical concepts and algorithms proposed and applied imaging and optical interferometry, including observations through a turbulent atmosphere. It is divided for convenience into speckle and non-speckle interferometric techniques. Section *C. Experimental Techniques* identifies instrumental methods and laboratory experiments, for application to astronomy observations or data reduction. Section *D. Astronomical Observations* lists publications dealing specifically with the results of spatial interferometry observations of astronomical sources, divided into Solar, Solar System, Stellar, and Infrared sub-categories. *E. Space Interferometry Concepts* summarizes proposed space missions, spacecraft experiments, and lunar-based interferometer concepts.

Section *F. Master Bibliography* is the full listing of all publications in the field, organized alphabetically by first author. While the General chronological development of the field is lost in the *Master Bibliography*, it provides a systematic way to identify publications, and indicates the major work of researchers and active research groups. The sequence of events in each research area can easily be traced through the chronological subject listings in Sections A - E.

The editors invite any comments, additions, and corrections to this document. Please address your remarks or requests for additional copies to Dr. Daniel Y. Gezari, NASA/Goddard Space Flight Center, Code 685, Greenbelt, MD 20771. We are grateful to Enid Chandler for her dedicated editorial assistance, to Len Moriarity for his database programming work, and to Luanne Giese for publication guidance, in the preparation of this document at NASA/GSFC.

CONFERENCE LIST - (alphabetical order)

Editors' Note: For clarity and conciseness in this document, citations of conference proceedings are listed by the title of the conference only. The full bibliographic citations for the published proceedings of conferences (meeting location, editors, publishing institution, city of publication, etc.) are given in this unabridged *Conference List*, arranged alphabetically by the title of the conference.

- "Active Phenomena in the Outer Atmosphere of the Sun and Stars", *Proc. Japan-France Seminar No. 22, (College de France, Paris)*, Y. Uchida and J. C. Pecker, CNRS, 1983.
- "Advanced Space Instrumentation in Astronomy", *COSPAR Symp. No. 4, ed. R. M. Bonnet, Adv. Space Res., 2, No. 4*, ed. Pergamon, 1983.
- "Aspects of Speckle Interferometric Imaging", *Proc. IEE Conf. (Univ. of York, U. K.)*, 1982.
- "Astrometric Techniques", *Proc. IAU Symposium No. 109 (Gainesville, Florida)*, ed. H. K. Eichorn and R. J. Leacock, Reidel (Dordrecht), 1984.
- "Astronomical Speckle Interferometry and Speckle Holography", *Proc. ICO-11 Conf. (Madrid, Spain)*, 1978.
- "Astrophysics of Brown Dwarfs", *Proc. Conf. (George Mason Univ.)*, ed. C. Kafatos, R. Harrington and S. Maran, Cambridge Univ. Press (Cambridge, England), 1986.
- "Astrophysics from the Moon", *Proc. NASA Workshop (Annapolis, MD February 5, 1990)*, ed. M. Mumma and H. Smith, American Institute of Physics Conference Proceedings (New York), 1990 (in press)
- "Auxilliary Instrumentation for Large Telescopes", *Proc. ESO/CERN Conf. (Geneva, Switzerland)*, ed. S. Laustsen and A. Reiz, ESO, 1972.
- "Calibration of Fundamental Stellar Quantities", *Proc. IAU Symposium No. 111 (Como, Italy)*, ed. D. S. Hayes, L. E. Pasinetti and A. G. Davis Philip, Reidel (Dordrecht), 1984.
- "Circumstellar Matter", *Proc. IAU Symposium No. 122 (Heidelberg, Germany)*, ed. J. Appenzeller, Reidel (Dordrecht), 1986.
- "Concepts for a Large Telescope in Space with Interferometric Imaging", *Proc. AIAA 24th Aerospace Sciences Meeting (Reno, Nevada)*, 1986.
- "Cool Stars, Stellar Systems and the Sun", *Fourth Cambridge Workshop (Sante Fe, New Mexico)*, ed. M. Zeilik and D. M. Gibson, Springer-Verlag, 1985.
- "Current Techniques in Double and Multiple Star Research", *Proc. IAU Colloquium No. 62 (Flagstaff, Ariz.)*, *Lowell Obs. Bull. No. 167*, ed. R. S. Harrington and O. G. Franz, 1981.
- "Current Trends in Optics", *Proc. ICO-12 Conf. (Graz, Austria)*, ed. Taylor and Francis, 1981.
- "Diffraction-limited Imaging with Very Large Telescopes", *Proc., Ecole d'ete de Cargese, Sept. 1988*, ed. D. Alloin and J. M. Mariotti, Kluwer Academic Publishers, 1989.

- "ESO Second Infrared Workshop"**, *Proc. Second ESO Infrared Workshop (Garching, West Germany)*, ed. A. F. M. Moorwood and K. Kjar, ESO, 1982.
- "ESO's Very Large Telescope"**, *Proc. ESO Workshop No. 17 (Cargese, France)*, ed. J. P. Swings and K. Kjar, ESO, 1983.
- "Future Solar Optical Observations Needs and Constraints"**, *Proc. JOSO Conf. (Florence, Italy), Obs. Arcetri, No. 106*, ed. G. Godoli, G. Noci and A. Righini, 1978.
- "Ground-based Astronomical Observations with Infrared Array Detectors"**, *Proc. Hawaii Workshop (Hilo, Hawaii)*, ed. C. G. Wynn-Williams, E. E. Becklin (Univ. of Hawaii), 1987.
- "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"**, *Proc. 1st ESO/NOAO Workshop (Oracle, Arizona)*, ed. J. Goad, NOAO, 1987.
- "High Angular Resolution Stellar Interferometry"**, *Proc. IAU Colloquium No. 50 (Univ. of Maryland)*, ed. J. Davis and W. J. Tango (Univ. of Sydney), 1978.
- "High-resolution Imaging by Interferometry"**, *Proc. ESO Conf. and Workshop No. 29 (Garching bei Munchen, West Germany)*, ed. F. Merkle, ESO, 1988.
- IAU Commission No. 9, *Proc. Meeting (IAU Gen. Assembly, New Delhi, India)*, ed. J. Davis, 1986.
- "Image Formation from Coherence Functions in Astronomy"**, *Proc. IAU Colloquium No. 49 (Gronigen, The Netherlands)*, ed. C. van Schooneveld, Reidel (Dordrecht), 1978.
- "Imaging in Astronomy"**, *Proc. OSA Topical Meeting, (Harvard Univ., Cambridge, Mass.)*, 1975.
- "Imaging Processes and Coherence in Physics"**, *Winter-School, (Les Houches, France)*, 1979.
- "Indirect Imaging"**, *Proc. URSI/IAU Symp. (Sydney, Australia)*, ed. J. A. Roberts, Cambridge Univ. Press, 1983.
- "Infinite Vistas: New Tools for Astronomy"**, ed. E. J. Cornell and J. Carr, Scribners Sons (New York), 1985.
- "Information Processing in Astronomy and Optics"**, *Proc. AAS/OSA Joint Topical Meeting (St. Paul, Minnesota)*, 1983.
- "Instrumentation for Astronomy with Large Optical Telescopes"**, *Proc. IAU Colloquium No. 67 (Zelenchukskaya, U. S. S. R.)*, ed. C. M. Humphries, Reidel (Dordrecht), 1982.
- "International School of Cosmology & Gravitation : Topological Properties and Global Structure of Space-Time"**, *Proc. Course (Plenum, New York)*, ed. Bergmann and de Sabbata, 1986.
- "Kilometric Optical Arrays in Space"**, *Proc. ESA Colloquium (Cargese, France), ESA SP-226*, 1984.
- "Mass Loss from Red Giants"**, *Proc. UCLA Workshop*, ed. M. Morris and B. Zuckerman, Reidel (Dordrecht), 1984.

- "Modern Astrometry", *Proc. IAU Colloquium No. 48 (Vienna, Austria)*, ed. F. V. Prochazka and R. H. Tucker, 1978.
- "Multicolor Photometry and the Theoretical HR Diagram", *Dudley Observatory Report No. 9*, ed. A. G. D. Philip and D. S. Hayes, 1975.
- "New Technologies for Astronomy", *Topical Conf. No. 1130 (Paris, April 24 - 28)* ed. J. P. Swings, 1989.
- "Observational Astrophysics with High Precision Data", *Proc. 27th Liege International Astrophysical Colloquium (Liege, Belgium)*, ed. L. Delbouille and A. Monfils, Institut d'Astrophysique, 1987.
- "Optical and Infrared Telescopes for the 1990s", *Proc. KPNO Conf. (Tucson, Ariz.)*, ed. A. Hewitt, KPNO, 1980.
- "Optical and Millimetric Wave Propagation and Scattering in the Atmosphere", *Proc. Florence Conf. (Florence, Italy)*, 1986.
- "Optical Interferometry in Space", *Proc. ESA Workshop (Granada, Spain), ESA SP-273*, ed. N. Longdon, ESA, 1987.
- "Optical Methods in Scientific and Industrial Measurements", *Proc. ICO Conf. (Tokyo, Japan 1974), Japan Journal Appl. Phys.*, 1975.
- "Optical Propagation Through Turbulence", *Proc. OSA Topical Meeting (Boulder, Colorado)*, 1974.
- "Optical Telescopes of the Future", *Proc. ESO/CERN Conf. (Geneva, Switzerland)*, ed. F. Pacini, W. Richter and R. N. Wilson, ESO, 1977.
- "Optics in Modern Science and Technology", *Proc. ICO-13 Conf., (Sapporo, Japan)*, 1984.
- "Photoelectronic Imaging Devices", *Proc. Conf.*, Academic Press, (London, England), 1978.
- "Physics of Be Stars", *Proc. IAU Colloquium No. 92. (Boulder, Colorado)*, 1986.
- "Physics and Astrophysics in the Space Station Era", *Proc. Conf., (Venice 1987)*, ed. Bernacca and Ruffini, 1989.
- "Progress in Optical Physics", *Proc. ICO Conf., (Melbourne, Australia)*, 1984.
- "Quantum-limited Imaging and Image Processing", *Proc. OSA Topical Meeting (Honolulu, Hawaii)*, 1986.
- "Relativity in Celestial Mechanics and Astrometry", *Proc. IAU Symposium No. 114*, ed. Kovalevsky and Brumberg, Reidel (Dordrecht), 1986.
- "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths", *Proc. ESO Conf. (Garching, West Germany)*, ed. M.-H. Ulrich and K. Kjar, ESO, 1981.

- "**Second Workshop on the ESO Very Large Telescope**", *Proc. ESO Workshop No. 24 (Venice, Italy)*, ed. S. D'Odorico and J. P. Swings, ESO, 1986.
- "**Serendipitous Discoveries in Radio Astronomy**", *Proc. NRAO Workshop (Green Bank, W. Virginia)*, ed. K. Kellermann and B. Sheets, 1983.
- "**Signal Recovery and Synthesis II**", *Proc. OSA Topical Meeting (Honolulu, Hawaii)*, 1986.
- "**Signal Recovery and Synthesis with Incomplete Information and Partial Constraints**", *Proc. OSA Topical Meeting (Incline Village, Nevada)*, 1983.
- "**Site Testing for Future Large Telescopes**", *Proc. ESO Workshop*, A. Ardeberg and L. Woltjer, ESO, 1983.
- "**Solar Instrumentation: What's Next?**", *Proc. Sac Peak Conf. (Sunspot, New Mexico)*, ed. R. B. Dunn, (Sac Peak Obs.), 1980.
- "**Space Optics**", *Proc. ICO-9 Conf. (Santa Monica, California)*, 1972.
- "**Speckle Interferometry in Astronomy**", *Proc. Symposium on Recent Advances in Astronomy (Ensenada, Mexico)*, ed. H. L. Johnson, C. Allen, 1981.
- "**Star Forming Regions**", *Proc. IAU Symposium No. 115 (Tokyo, Japan)*, ed. M. Peimbert and J. Jugaku, Reidel (Dordrecht), 1985.
- "**Stars, Stellar Systems and the Sun**", *Proc. Second Cambridge Workshop, SAO Special Reports*, ed. M. S. Giampapa, Smithsonian Astrophysical Observatory (Cambridge, MA), 1982.
- "**Supernova 1987A in the LMC**", *Proc. ESO Workshop*, ed. I. J. Danziger (Garching, Germany) 1987.
- "**Synthesis Imaging**", *Proc. NRAO Summer School (Socorro, New Mexico)*, ed. R. A. Perley, F. R. Schwab and A. H. Bridle, 1985.
- "**Techniques d'Interferometrie a Tres Grande Base**", *Proc. CNES Conf. (Toulouse, France)*, 1982.
- "**Thirteenth Texas Symposium in Relativistic Astrophysics: New Telescope and Detector Technology**", *Proc. Workshop*, ed. D. York, 1986.
- "**The Nearby Stars and the Stellar Luminosity Function**", *Proc. IAU Colloquium No. 76 (Wesleyan University, Connecticut), van Vleck Observatory Cont. No. 1*, ed. A. G. Davis Philip and A. R. Uggren, 1983.
- "**The Use of Supercomputers in Observational Astronomy**", *Proc. Conf. (Minnesota)*, ed. Cornwell and Dickey, 1985.
- "**Towards Understanding Galaxies at Large Redshift**", *Proc. Workshop*, ed. R. Kron and A. Renzini, Reidel (Dordrecht), (1988).
- "**Unconventional Imagery**", *Proc. Workshop (Rigi, Switzerland)*, ed. A.W. Lohmann, 1984.

CONFERENCE LIST - (alphabetical order)

"Using Small Aperture Interferometry to Detect Planets in Nearby Binary Star Systems", *NASA Conf. Publication CP-2124*, ed. D. C. Black and W. E. Brunk, NASA, 1980.

"V Reunion Regional Latinoamericana de Astronomia de la UIA", *Proc. UAI Conf. (Merida, Mexico)*, 1986.

"Very Large Telescopes, their Instrumentation and Programs", *Proc. IAU Colloquium No. 79 (Garching, West Germany)*, ed. M.-H. Ulrich and K. Kjar, ESO, 1984.

A. REVIEW PAPERS (chronological order)

High-Resolution Techniques in Optical Astronomy

A. Labeyrie, *Progress in Optics*, 49-87 (1976)

Astronomical Image Reconstruction in Astronomy

S. P. Worden, *Vistas in Astronomy*, 20, 301-307 (1977)

Observational Techniques in Infrared Astronomy

P. Lena, *Infrared Astronomy*, (1978)

Stellar Interferometry Methods

A. Labeyrie, *Ann. Rev. Astron. Astrophys.*, 16, 77-102 (1978)

La Haute Resolution Spatiale par Interferometrie dans le Proche Infrarouge

P. Lena, *J. Optics (Paris)*, 10, No. 6, 323-328 (1979)

The Scope of the Lunar Occultation Technique for Measurement of Stellar Angular Diameters

S. T. Ridgway, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"*, Paper 6 (1979)

Interferometric Methods in Astronomy

A. Labeyrie, *Proc. ICO-12 Conf., "Current Trends in Optics"*, 21-27 (1981)

Interferometric Methods in Optical Astronomy

G. Weigelt, *Proc. ICO-12 Conf., "Current Trends in Optics"*, 28-39 (1981)

Review on Increase in Spatial Resolving Power

F. Roddier, *Japan-France Seminar, "Active Phenomena in the Outer Atmosphere of the Sun and Stars"*, 22 (1983)

High Angular Resolution

A. Labeyrie, *Saas Fe Course on Astrophysics* (1986)

Ground-based Interferometry

F. Roddier, *Proc. Workshop, "Thirteenth Texas Symp. in Relativistic Astrophysics: New Telescope and Detector Technology"* (1986)

Speckle Imaging Techniques

J. C. Dainty, *Proc. SPIE*, 828, 02 (1987)

Phase Retrieval from Fourier Intensity Data

J. R. Fienup, *Proc. SPIE*, 828, 13 (1987)

The Future of High Angular Resolution Astronomy: Seeing the Unseen

H. A. McAlister, *Vistas in Astronomy* (1987)

High Resolution Astronomical Imaging by Triple Correlation Processing

G. Weigelt *Proc. SPIE*, 828, 08 (1987)

Aperture Synthesis in Space : An Overview and Results from the ESA Study Group

A. REVIEW PAPERS (chronological order)

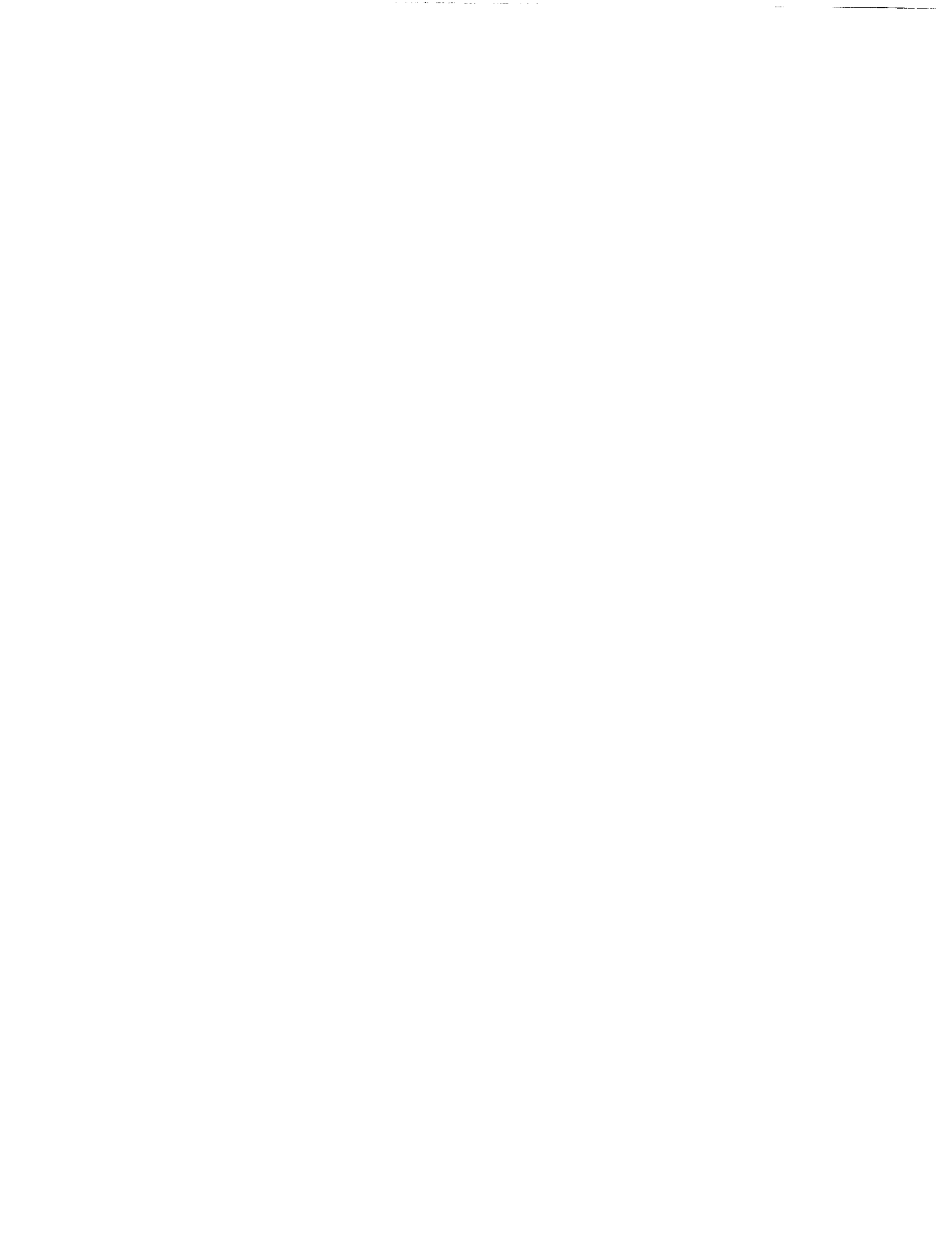
M. Faucherre, A. Greenaway, F. Merkle, J. E. Noordam, M. A. C. Perryman, F. Vakili, S. Volonte and G. P. Weigelt, *Proc. Conf., "Diffraction-limited Imaging with Very Large Telescopes"* (1989)

Speckular Reflections -- Developments in Astronomical Speckle Imaging

G. R. Ayers, *Proc. S.P.I.E. No. 1351*, in press (1990)

B. THEORY (chronological order)

- 1. Imaging Theory*
 - 2. Speckle Interferometry*
 - 3. Speckle Imaging*
 - 4. General Interferometry (non-speckle)*
 - 5. Image Reconstruction Algorithms*
-



1. IMAGING THEORY:

On the Application of Interference Methods to Astronomical Methods

A. A. Michelson, *Phil. Mag.*, 30, 1-20 (1890)

On the Application of Interference Methods to Astronomical Measurements

A. A. Michelson, *Ap. J.*, 51, 257-262 (1920)

Interferometer Methods in Astronomy

F. G. Pease, *Ergebn. Exacten. Naturwiss.*, 10, 84-96 (1931)

Correlation Between Photons in Two Coherent Beams of Light

R. Hanbury-Brown, R. Q. Twiss, *Nature*, 177, 27-29 (1956)

The Question of Correlation Between Photons in Coherent Light Rays

R. Hanbury-Brown, R. Q. Twiss, *Nature*, 178, 1447-1450 (1956)

Interferometry of the Intensity Fluctuations in Light. I. Basic Theory: The Correlation Between Photons in Coherent Beams of Radiation

R. Hanbury-Brown, R. Q. Twiss, *Proc. Roy. Soc. A*, 242, 300-324 (1957)

A Phase Sensitive Interferometer Technique for the Measurement of the Fourier Transforms of Spatial Brightness Distribution of SMA

R. C. Jennison, *M. N. R. A. S.*, 118, 276-284 (1958)

Modulation Transfer Function Associated with Image Transmission Through Turbulent Media

R. E. Hufnagel, N. R. Stanley, *J. Opt. Soc. Am.*, 54, 52-61 (1964)

Transformations in Optics

L. Mertz, ed. J. Wiley & Sons 1965

Restoration of Turbulence-Degraded Images

B. L. McGlamery, *J. Opt. Soc. Am.*, 57, 293-297 (1967)

Maximum Entropy Spectral Analysis

J. P. Burg, *37th Ann. Intern. Meet. Soc. Explor. Geophys. (Oklahoma)* (1967)

Spatial Filtering of Astronomical Photographs: II Theory

R. L. Wildey, *A. J.*, 72, 884-886 (1967)

La Restitution de la Phase a Partir de Mesures d'Eclaircissement

H. Arsenault, S. Lowenthal, *C. R. Acad. Sc. (Paris)*, 269, 518-521 (1969)

Analogy Between Holography and Interferometric Image Formation

J. W. Goodman, *J. Opt. Soc. Am.*, 60, 506-509 (1970)

Nonredundant Arrays and Postdetection Processing for Aberration Compensation in Incoherent Imaging

F. D. Russel, J. W. Goodman, *J. Opt. Soc. Am.*, 61, 182-191 (1971)

Identification and Removal of Phase Errors in Interferometry

R. H. T. Bates, P. J. Napier, *M. N. R. A. S.*, 158, 405-424 (1972)

A Practical Algorithm for the Determination of Phase from Image and Diffraction Plane Picture

R. W. Gerchberg, W. O. Saxton, *Optik*, 35, 237-246 (1972)

Autocorrelation Methods to Obtain Diffraction Limited Resolution with Large Telescope

C. E. KenKnight, *Ap. J.*, 176, L43-L45 (1972)

Random Wave-front Perturbations and Telescope Star Images

E. H. Linfoot, R. C. Witcomb, *M. N. R. A. S.*, 158, 199-231 (1972)

High Resolution Image Formation Through the Turbulent Atmosphere

Y. C. Liu, A. Lohmann, *Opt. Comm.*, 8, 372-377 (1973)

Interferometric Technique for Recording and Restoring Images Degraded by Unknown Aberrations

W. T. Rhodes, J. W. Goodman, *J. Opt. Soc. Am.*, 63, 647-657 (1973)

Correlation Measurements on the Complex Amplitude of Stellar Plane Waves Perturbed by Atmospheric Turbulence

C. Roddier, F. Roddier, *J. Opt. Soc. Am.*, 63, 661-663 (1973)

Spatial Filtering of Astronomical Photographs: III Remarks on the Knox-Thompson Re-Apodization

R. L. Wildey, *Ap. J.*, 186, L47-L50 (1973)

Maximum Entropy Spectral Analysis

J. G. Ables, *Astron. Astrophys. Suppl. Ser.*, 15, 383-393 (1974)

Measurement of Averaged Squared Modulus of Atmospheric-lens Modulation Transfer Function

C. Aime, *J. Opt. Soc. Am.*, 4, 1129-1132 (1974)

High Resolution Imaging Through Turbulent Media

C. P. Wang, *Opt. Comm.*, 10, 253-257 (1974)

New Outlook on Processing Radiation Received from Objects Viewed through Randomly Fluctuating Media

R. H. T. Bates, P. T. Gough, *IEEE Trans. Comp*, C-24, 449-456 (1975)

Obtaining Information through the Atmosphere at the Diffraction Limit of a Large Aperture

J. B. Breckinridge, *J. Opt. Soc. Am.*, 65, 755-759 (1975)

Phase Retrieval and Image Reconstruction for Astronomy

J. C. Dainty, J. R. Fienup, *Image Recovery: Theory and Application*, Chapter 7, Academic Press, ed. H. Stark, 231-275 (1975)

Photon Noise and Atmospheric Noise in Active Optical Systems

F. J. Dyson, *J. Opt. Soc. Am.*, 65, 551-558 (1975)

Isoplanicity: The Translation Invariance of the Atmospheric Green's Function

D. Korff, G. Dryden, R. Leavitt, *J. Opt. Soc. Am.*, 65, 1321-1330 (1975)

Astronomical Differential Angle of Arrival Measurements

M. G. Miller, P. F Keller, *Proc. OSA Topical Meeting, "Imaging in Astronomy"* (1975)

A New Algorithm in Spectral Analysis and Band-Limited Extrapolation

A. Papoulis, *IEEE Trans. Circuits Syst., CAS-22 (9)*, 735-742 (1975)

Influence of Exposure Time on Spectral Properties of Turbulence-Degraded Astronomical Image

C. Roddier, F. Roddier, *J. Opt. Soc. Am.*, 65, 664-667 (1975)

Isoplanicity for Imaging Through Turbulent Media

C. P. Wang, *Opt. Comm.*, 14, 200-204 (1975)

Imaging Through Turbulence With Telescope Arrays

C. Aime, F. Roddier, *Opt. Comm.*, 19, 57-60 (1976)

A Stochastic Image Restoration Procedure

R. H. T. Bates, *Opt. Comm.*, 19, 240-244 (1976)

The Phase Problem

R. E. Burge, M. A. Fiddy, A. H. Greenaway, G. Ross, *Proc. R. Soc. Lond. A.*, 350, 191-212 (1976)

Varieties of Isoplanatism

D. L. Fried, *Proc. SPIE*, 75, 20-29 (1976)

Fundamental Limitations in Linear Invariant Restoration of Atmospherically Degraded Images

J. W. Goodman, J. F. Belsher, *Proc. SPIE*, 75, 141-154 (1976)

Photon Limited Images and Their Restoration

J. W. Goodman, J. F. Belsher, *Report TR-76-50*, ARPA Order No. 2646 (1976)

Precompensation and Postcompensation of Photon Limited Degraded Images

J. W. Goodman, J. F. Belsher, *Report TR-76-382*, ARPA Order No. 2646 (1976)

A. Statistical Method for the Post-Detection Compensation for Atmospheric Distortions of Images of Faint Scene

C. E. KenKnight, *Proc. SPIE*, 75, 163-167 (1976)

The Seeing Limit Can Resolve the Isoplanatic Patch

J. H. Shapiro, *J. Opt. Soc. Am.*, 66, 469-477 (1976)

Propagation-Medium Limitations on Phase Compensated Atmospheric Imaging

J. H. Shapiro, *J. Opt. Soc. Am.*, 66, 460-469 (1976)

A-Posteriori Restoration of Atmospherically Degraded Images Using Multiframe Imager

J. W. Sherman, *Proc. SPIE*, 74, 249-258 (1976)

Reconstruction of Turbulence-degraded Images by Spectral Ratio Measurements

G. J. M. Aitken, D. L. Desaulniers, *J. Opt. Soc. Am.*, 67, 843-844 (1977)

Imaging through Randomly Fluctuating Media

R. H. T. Bates, M. J. McDonnell, P. T. Gough, *IEEE Trans.*, 65, 138-143 (1977)

Least-square Fitting a Wave-front Distortion Estimate to an Array of Phase-difference Measurement

D. L. Fried, *J. Opt. Soc. Am.*, 67, 370-375 (1977)

Photon Limitations in Imaging and Image Restoration

J. W. Goodman, J. F. Belsher, *Report TR-77-165*, ARPA Order No. 2646 (1977)

Proposal for Phase Recovery from a Single Intensity Distribution

A. H. Greenaway, *Opt. Lett.*, 1, 10-12 (1977)

Proposal for the Determination of the Complex Degree of Spatial Coherence

Y. Ohtsuka, *Opt. Lett.*, 1, 133-134 (1977)

Changes in the Atmospheric-lens Modulation Transfer Function Used for Calibration in Solar Speckle Interferometry

C. Aime, G. Ricort, C. Roddier, G. Lago, *J. Opt. Soc. Am.*, 68, 1063-1065 (1978)

Fringe Visibility May Uniquely Define Brightness Distributions

R. H. T. Bates, *Astron. Astrophys.*, 70, L27-L29 (1978)

Reconstruction of Turbulence-Degraded Images Using Nonredundant Aperture Array

T. M. Brown, *J. Opt. Soc. Am.*, 68, 883-889 (1978)

Reconstruction of an Object from the Modulus of its Fourier Transform

J. R. Fienup, *Opt. Lett.*, 3, 27-29 (1978)

Image Reconstruction from Incomplete and Noisy Data

S. F. Gull, G. J. Daniell, *Nature*, 272, 686-690 (1978)

Image Restoration by the Method of Least Squares

K. von der Heide, *Astron. Astrophys.*, 70, 777-784 (1978)

Stellar Interferometry Methods

A. Labeyrie, *Ann. Rev. Astron. Astrophys.*, 16, 77-102 (1978)

Mathematical-statistical Description of the Iterative Beam Removing Technique (Method CLEAN)

U. J. Schwarz, *Astron. Astrophys.*, 65, 345-356 (1978)

Generalized Image Restoration by the Method of Alternating Orthogonal Projection

D. C. Youla, *IEEE Trans. Circuits Syst.*, CAS-25 (9), 694-702 (1978)

Restoration of Atmospherically Degraded Images Using Complex Spectral Ratios

G. J. M. Aitken, D. L. Desaulniers, *Opt. Comm.*, 28, 26-29 (1979)

On the Ambiguity of the Image Reconstruction Problem

Y. M. Bruck, L. G. Sodin, *Opt. Comm.*, 30, 304-308 (1979)

On the Danger of Applying Statistical Reconstruction Methods in the Case of Missing Phase Information

J. C. Dainty, M. A. Fiddy, A. H. Greenaway, *Proc. IAU Coll. #49, "Image Formation from Coherence Functions in Astronomy"*, 95-101 (1979)

Analytic Fourier Optics. The Encoding of Information by Complex Zeros
M. A. Fiddy, G. Ross, *Opt. Acta*, 26, 1139-1146 (1979)

Space Object Imaging Through the Turbulent Atmosphere
J. R. Fienup, *Opt. Engr.*, 18, 529-534 (1979)

The Phase Problem in Astronomy
A. H. Greenaway, *J. Optics (Paris)*, 10, No 6, 308-310 (1979)

Matrix Formulation of the Reconstruction of Phase Values from Phase Differences
B. R. Hunt, *J. Opt. Soc. Am.*, 69, 393-399 (1979)

On the Statistics of Stellar Speckle Patterns and Pupil Plane Scintillation
G. Parry, J. G. Walker, R. J. Scaddan, *Opt. Acta*, 26, 563-574 (1979)

L'holographie en Lumiere Incoherente
C. Roddier, *J. Optics (Paris)*, 10, #6, 317 (1979)

Imaging in the Presence of Random Wave Aberrations
A. M. Schneiderman, D. P. Karo, *J. Opt. Soc. Am.*, 69, 717-724 (1979)

Noise Properties of Images Reconstructed from Fourier Modulus
G. B. Feldkamp, J. R. Fienup, *Proc. SPIE*, 231, 84-93 (1980)

Iterative Method Applied to Image Reconstruction and to Computer-Generated Hologram
J. R. Fienup, *Optical Engr.*, 19, 297-305 (1980)

The Formal Equivalence Between Autocorrelation and Power Spectral Analysis of Photon-Limited Data
A. H. Greenaway, J. C. Dainty, *Opt. Comm.*, 35, 307-310 (1980)

Methods of Using Closure Phases in Radio Aperture Synthesis
A. E. Rogers, *Proc. SPIE*, 231, 10-17 (1980)

Partially Redundant Apertures for Infrared Stellar Imaging
G. J. M. Aitken, J. P. Corteggiani, J. Gay, *J. Opt. Soc. Am.*, 71, 759-763 (1981)

Imaging by Dilute Apertures in the Presence of Atmospheric Turbulence
D. S. Brown, *Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths"*, 71-74 (1981)

Ambiguity of Phase Retrieval for Functions with Disconnected Support
T. R. Crimmins, J. R. Fienup, *J. Opt. Soc. Am.*, 71, 1026-1028 (1981)

Fourier Modulus Image Construction
J. R. Fienup, *RADC-TR-81-63*, Griffiss AFB, NY (1981)

Reconstruction and Synthesis Applications of an Iterative Algorithm
J. R. Fienup, *Proc. SPIE*, 373, 147-160 (1981)

Spatial Coherence Measurements Through Turbulent Atmosphere Using a Computer Aided Interferometer

K. Itoh, Y. Ohtsuka, *Opt. Commun.*, 36, 250-254 (1981)

Interferometric Image Reconstruction Through the Turbulent Atmosphere

K. Itoh, Y. Ohtsuka, *Appl. Opt.* 20, 4239-4244 (1981)

On the Influence of Scanning Speed in Turbulence Degraded One-dimensional Images

G. Lund, F. Martin, C. Aime, *J. Optics (Paris)*, 12, 207-215 (1981)

The Effects of Atmospheric Turbulence in Optical Astronomy

F. Roddier, *Progress in Optics XIX*, 281-376, ed. E. Wolf (North Holland) (1981)

Atmospheric Limitations to High Angular Resolution Imaging

F. Roddier, *Proc. ESO Conf.*, "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths", 5-23 (1981)

Solar Speckle Imaging

R. V. Stachnik, P. Nisenson, C. Papaliolios, *Proc. Sac. Peak. Conf.*, "Solar Instrumentation: What's Next?", 502-509 (1981)

Image Reconstruction from Power Spectra

P. van Toorn, A. Huizer, A. Greenaway, *Proc. Sac. Peak. Conf.*, "Solar Instrumentation: What's Next?", 510-515 (1981)

Object Reconstruction from Turbulence-degraded Images

J. G. Walker, *Opt. Acta*, 28, 1017-1019 (1981)

The Zero Location Problem in Fourier Optics

J. W. Wood, M. A. Fiddy, R. E. Burge, *Proc. ICO-12 Conf.*, "Current Trends in Optics", 67 (1981)

Fourier Phase Problems are Uniquely Solvable in More Than One Dimension. I: Underlying Theory

R. H. T. Bates, *Optik*, 61, 247-262, (1982)

Phase Retrieval Algorithms: A Comparison

J. R. Fienup, *Appl. Opt.*, 21, 2758-2769 (1982)

Reconstruction of the Support of an Object from the Support of Its Autocorrelation

J. R. Fienup, T. R. Crimmins, W. Holsztynski, *J. Opt. Soc. Am.*, 72, 610-624 (1982)

Fourier Phase Problems are Uniquely Solvable in More Than One Dimension. III: Computational Examples for Two Dimensions

W. R. Fright, R. H. T. Bates, *Optik*, 62, 219-230 (1982)

Fourier Phase Problems are Uniquely Solvable in More Than One Dimension. II: One-dimensional Considerations

K. L. Garden, R. H. T. Bates, *Optik*, 62, 131-142 (1982)

The Importance of Boundary Conditions in the Phase Retrieval

M. H. Hayes, T. F. Quatieri, *IEEE Trans. ASSP*, 1545-1548 (1982)

A Procedure to Correct the Images of Astronomical Objects for the Distortions Due to Atmospheric Turbulence

A. M. J. Huiser, *Opt. Commun.*, 42, 226-230 (1982)

Analysis of the Phase Unwrapping Algorithm

K. Itoh, *Appl. Opt.*, 21, 2470-2470 (1982)

Imaging Through Atmospheric Turbulence Using Modified Log Gradients

H. W. Swan, J. W. Goodman, *Proc. SPIE*, 358, 116-120 (1982)

A Technique for Obtaining Diffraction Limited Pictures from a Single Large-Aperture Small-exposure Image

N. R. Arnot, *Opt. Commun.*, 45, 380-384 (1983)

Wave-front Dislocations: Topological Limitations for Adaptive Systems with Phase Conjugation

N. B. Baranova, A. V. Mamaev, N. F. Philipetsky, V. V. Shkunov, B.Y. Zel'dovitch, *J. Opt. Soc. Am.*, 73, 525-528 (1983)

Composite Two-dimensional Phase Restoration Procedure

R. H. T. Bates, W. R. Fright, *J. Opt. Soc. Am.*, 73, 358-365 (1983)

Image Restoration and Resolution Enhancement

C. L. Byrne, R. M. Fitzgerald, M. A. Fiddy, T. J. Hall, A. M. Darling, *J. Opt. Soc. Am.*, 73, 1481-1487 (1983)

Uniqueness of Phase Retrieval for Functions with Sufficiently Disconnected Support

T. R. Crimmins, J. R. Fienup, *J. Opt. Soc. Am.*, 73, 218-221 (1983)

Probabilistic Diffraction Limited Imaging through Turbulence

A. Englander, *Opt. Engr.* 22, 145-148 (1983)

The Phase Retrieval Problem

M. A. Fiddy, *Proc. SPIE*, 413., "Inverse Optics", 176-181 (1983)

Enforcing Irreducibility for Phase Retrieval in Two Dimensions

M. A. Fiddy, B. J. Brames, J. C. Dainty, *Opt. Lett.*, 8, 96-98 (1983)

Reconstruction of Objects Having Latent Reference Points

J. R. Fienup, *J. Opt. Soc. Am.*, 73, 1421-1426 (1983)

Recursive Phase Retrieval Using Boundary Conditions

M. H. Hayes, T. F. Quatieri, *J. Opt. Soc. Am.*, 73, 1427-1433 (1983)

Analysis of the Shift and Add Method for Imaging Through Turbulent Media

B. R. Hunt, W. R. Fright, R. H. T. Bates, *J. Opt. Soc. Am.*, 73, 456-465 (1983)

Interferometric Imaging of a Thermally Luminous Two-dimensional Object

K. Itoh, Y. Ohtsuka, *Opt. Comm.*, 48, 75-79 (1983)

Phase Estimation Based on the Maximum Likelihood Criterion

K. Itoh, Y. Ohtsuka, *Appl. Opt.*, 22, 3054-3057 (1983)

Complex Interferometry

L. N. Mertz, *Appl. Opt.*, 22, 1530-1534 (1983)

Real-time Fringe-pattern Analysis

L. N. Mertz, *Appl. Opt.*, 22, 1535-1539 (1983)

Reconstruction of Stellar Images from Coherence Measurements in the Visible

F. Roddier, *Proc. AAS/OSA Joint Topical Meeting, "Information Processing in Astronomy and Optics"*, FA03 (1983)

Unique Reconstruction of a Band-limited Multidimensional Signal from Its Phase Magnitude

J. L. C. Sanz, T. S. Huang, *J. Opt. Soc. Am.*, 73, 1446-1450 (1983)

Maximum Entropy Image Reconstruction from Phaseless Fourier Data

J. Skilling, *Proc. OSA Topical Meeting, "Signal Recovery and Synthesis with Incomplete Information and Partial Constraints"* ThA5-1/4 (1983)

Effect of Nonisoplanicity on the Shift-and-add Algorithm

W. G. Bagnuolo, *Opt. Lett.*, 9, 65-67 (1984)

Phase and Amplitude Recovery from Bispectra

H. Bartelt, A. W. Lohmann, B. Wirnitzer, *Appl. Opt.*, 23, 3121-3129 (1984)

Wiener Filtering and Cleaning in a General Image Processing Context

J. H. T. Bates, W. R. Fright, R. H. T. Bates, *M. N. R. A. S.*, 211, 1-14 (1984)

Reconstructing Images from their Fourier Intensities

R. H. T. Bates, W. R. Fright, *Advances in Computer Vision and Image Processing*, ed. T. S. Huang (JAI Press), 227-264 (1984)

Uniqueness of Solutions to Two-dimensional Fourier Phase Problems for Localised and Positive Image

R. H. T. Bates, *Advances in Computer Vision and Image Processing, 1*, ed. T. S. Huang, (JAI Press), 205-217 (1984)

Phase Restoration is Successful in the Optical as well as the Computational Laboratory

R. H. T. Bates, W. R. Fright, W. A. Norton, *Proc. URSI/IAU Symp. "Indirect Imaging"*, 119-124 (1984)

Is Jaynes' Maximum Entropy Principle Applicable to Image Reconstruction?

T. J. Cornwell, *Proc. URSI/IAU Symp., "Indirect Imaging"*, 291-296 (1984)

The Essential Role of Prior Knowledge in Phase Retrieval

J. C. Dainty, M. A. Fiddy, *Opt. Acta*, 31, 325-330 (1984)

Experimental Evidence of the Uniqueness of Phase Retrieval from Intensity Data

J. R. Fienup, *Proc. URSI/IAU Symp., "Indirect Imaging"*, 99-109 (1984)

Phase Retrieval from a Single Intensity Distribution

J. R. Fienup, *Proc. ICO-13 Conf., "Optics in Modern Science and Technology"*, 606-609 (1984)

Comparison of Phase Retrieval Algorithms

J. R. Fienup, *Advances in Computer Vision and Image Processing*, ed. T. S. Huang, "Image Reconstruction from Incomplete Observations", 191-225 (1984)

Estimating Fried's Parameter from a Time Series of an Arbitrary Resolved Object Imaged through Atmospheric Turbulence

O. von der Luhe, *J. Opt. Soc. Am. A*, 1, 510-519 (1984)

A Method to Estimate Fried's Seeing Parameter From a time Series of Arbitrary Resolved Structures Imaged Through the Atmosphere

O. von der Luhe, *Proc. IAU Coll. #79, "Very Large Telescopes, Their Instrumentation and Programs"*, 203-220 (1984)

Indirect Imaging in Optical Astronomy

F. Roddier, *Proc. Workshop, "Unconventional Imagery"*, 23 (1984)

Long-baseline Michelson Interferometry with Large Ground-based Telescopes Operating at Optical Wavelengths. I - General Formalism. Interferometry at Visible Wavelengths

F. Roddier, P. Lena, *J. Optics (Paris)*, 15, 171-182 (1984)

Long-baseline Michelson Interferometry with Large Ground-based Telescopes Operating at Optical Wavelengths. II - Interferometry A

F. Roddier, P. Lena, *J. Optics (Paris)*, 15, 363-374 (1984)

Maximum Entropy Image Reconstruction: General Algorithm

J. Skilling, R. K. Bryan, *M. N. R. A. S.*, 211, 111-124 (1984)

Phaseless Object Reconstruction

P. van Toorn, A. H. Greenaway, A. M. J. Huiser, *Opt. Acta*, 7, 767-774 (1984)

Direct Phase Gradient Measurement for Speckle Image Reconstruction

G. J. M. Aitken, R. Houtman, R. Johnson, J. M. Pochet, *Appl. Opt.*, 24 (18), 2926 (1985)

Image Restoration by the Shift-and-add Algorithm

W. G. Bagnuolo, *Opt. Lett.*, 10, 200-202 (1985)

Fourier Phase Retrieval when the Image is Complex

R. H. T. Bates, D. G. H. Tan, *Proc SPIE*, 558, 54-59 (1985)

Uniqueness and Other Aspects of the Optical Phase Problem

B. J. Brames, *PhD Thesis*, University of Rochester (1985)

Fast Iterative Solution to Exact Equations for the Two-dimensional Phase-retrieval Problem

K. Chalasinska-Macukow, H. H. Arsenault, *J. Opt. Soc. Am. A*, 2, 46-50 (1985)

The Cauchy-Schwarz Inequality as a Constraint in Power Spectrum/Autocorrelation Analysis and Image Reconstruction

W. J. Cocke, *Proc. SPIE*, 556, 46-49 (1985)

A Simple Maximum Entropy Deconvolution Algorithm

T. J. Cornwell, K. F. Evans, *Astron. Astrophys.*, 143, 77-83 (1985)

Solution of The Two Dimensional Phase Retrieval Problem

H. V. Deighton, M. S. Scivier, M. A. Fiddy, *Opt. Lett.*, 10, 250-251 (1985)

Statistical Analysis of the Weighted Shift-and-add Image Reconstruction Technique

J. D. Freeman, E. Ribak, J. C. Christou, E. K. Hege, *Proc. SPIE*, 556, 279-283 (1985)

Statistical Optics

J. W. Goodman, ed. J. Wiley & Sons (1985)

Multichannel Seeing Compensation via Software

L. N. Mertz, *Appl. Opt.*, 24, 2898-2902 (1985)

Ambiguities in Magnitude only Reconstruction of Band-limited Signals

M. S. Scivier, M. A. Fiddy, *Opt. Lett.*, 10, 369-371 (1985)

General Structure of Regularization Procedures in Image Reconstruction

D. M. Titterington, *Astron. Astrophys.*, 144, 381-387 (1985)

Speckle Interferometry and Differential Speckle Imagery Using Cross-spectrum Techniques

C. Aime, R. Petrov, F. Martin, G. Ricort, J. Borgnino, *Optical Engr.*, 25, 716-723 (1986)

Phase-gradient Speckle Image Processing: Digital Implementation and Noise Bias Term

G. J. M. Aitken, R. Houtman, R. Johnson, *Appl. Opt.*, 25 (7), 1031 (1986)

Stellar Speckle-image Reconstruction from Phase Gradients

G. J. M. Aitken, R. Johnson, R. Houtman, *Proc. Florence Conf., "Optical and Millimetric Wave Propagation and Scattering"*, 63-65 (1986)

The Status of Practical Fourier Phase Retrieval

R. H. T. Bates, D. Mnyama, *Advances in Electronics and Electron Physics*, 67, 1-64, ed. P. W. Hawkes (Academic Press) (1986)

Image Restoration and Reconstruction

R. H. T. Bates, M. J. McDonnell, ed. Clarendon Press, Oxford (1986)

Field-of-view Considerations for Telescope Arrays

J. M. Beckers, *Proc. SPIE*, 628, 255-260 (1986)

Object Reconstruction of the Integer Field from Noisy Fourier Intensity Data

H. M. Berenyi, M. A. Fiddy, *Opt. Comm.*, 59, 342-344 (1986)

Unique Phase Retrieval with Explicit Support Information

B. J. Brames, *Opt. Lett.*, 11, 61-63 (1986)

Sufficient Support Information to Ensure a Unique Solution to the Phase Problem

B. J. Brames, *Proc. OSA Topical Meeting, "Signal Recovery & Synthesis II"*, 68-70 (1986)

Exploring the Irreducible Support

B. J. Brames, *Proc. OSA Topical Meeting, "Signal Recovery & Synthesis II"*, 71-74 (1986)

Maximum Entropy Image Reconstruction from Phaseless Fourier Data

R. K. Bryan, J. Skilling, *Opt. Acta*, 33, 287-299 (1986)

Reconstruction of Continuous Object Distributions from Fourier Magnitude

C. L. Byrne, M. A. Fiddy, *Proc. OSA Topical Meeting, "Signal Recovery & Synthesis II"*, 58-61 (1986)

Error Lower Bound for Phase Retrieval

J. N. Cederquist, *Proc. OSA Topical Meeting, "Signal Recovery & Synthesis II"*, 64-67 (1986)

A Comparative Study of Deconvolution Techniques for Infrared Speckle Interferometry

M. L. Cobb, D. W. McCarthy, *Proc. SPIE*, 627, 758-765 (1986)

Deconvolution

T. J. Cornwell, *NRAO Summer School, "Synthesis Imaging"*, 109-121 (1986)

Phase Retrieval for Discrete Functions with Support Constraints

T. R. Crimmins, *Proc. OSA Topical Meeting, "Signal Recovery & Synthesis II"*, 75-78 (1986)

Interferometric Image Restoration

P. Downes, *Proc. ESO Workshop, 24, "Second Workshop on the ESO Very Large Telescope"*, 205-214 (1986)

Phase Retrieval in Imaging

H. A. Ferwerda, *Proc. OSA Topical Meeting, "Signal Recovery & Synthesis II"*, 36-39 (1986)

Inversion of Optical Scattered Field Data

M. A. Fiddy, *J. Phys. D.*, 19, 301-316 (1986)

Phase Retrieval Using Boundary Conditions

J. R. Fienup, *J. Opt. Soc. Am. A*, 3, 284-288 (1986)

Phase Retrieval: Algorithm Improvements, Uniqueness, and Complex Objects

J. R. Fienup, *Proc. OSA Topical Meeting, "Signal Recovery & Synthesis II"*, 40-43 (1986)

Phase Retrieval Stagnation Problems and Solutions

J. R. Fienup, C. C. Wackerman, *J. Opt. Soc. Am. A*, 3, 1897-1907 (1986)

Aperture Distribution Phase from Single Radiation Pattern Measurement via Gerchberg-Saxton Algorithm

P. H. Gardenier, C. A. Lim, D. G. H. Tan, R. H. T. Bates, *Electronics Lett.*, 22, 113-115 (1986)

Fourier-transform Spectral Imaging: Retrieval of Source Information from Three-dimensional Spatial Coherence

K. Itoh, Y. Ohtsuka, *J. Opt. Soc. Am. A*, 3, 94-100 (1986)

New Algorithm for Closed Form Image Reconstruction from Fourier Transform Magnitude

D. Izraelevitz, J. S. Lim, *Proc. OSA Topical Meeting, "Signal Recovery & Synthesis II"*, 54-57 (1986)

On the Axiomatic Approach to the Maximum Entropy Principle of Inference

S. N. Karbelkar, *Pramana J. Phys.*, 26, No. 4, 301-310 (1986)

Stability Conditions in Image Reconstruction: A New Regularization Principle

A. Lannes, M. J. Casanove, S. Roques, *Proc. OSA Topical Meeting, "Signal Recovery & Synthesis II"*, 108-111 (1986)

Innovations in the Phasor Diagram that Give Lower Ultimate Quantum Noise

L. N. Mertz, *Proc. OSA Topical Meeting, "Quantum-limited Imaging and Image Processing"*, 38-40 (1986)

Image Reconstruction from Partial Fresnel Zone Information

R. Relleston, N. George, *Appl. Opt.*, 25, 178-183 (1986)

Maximum Entropy Method for Phase-unstable Aperture Synthesis

R. K. Shevgaonkar, *Astron. Astrophys.*, 162, 349-358 (1986)

Reinvestigation of Optical Interference at Low Light Levels

A. M. Sinton, P. H. Gardenier, R. H. T. Bates, *Speculations in Sci. Technology*, 9, 269-278 (1986)

Probability Imaging of Double and Multiple Stars

C. Aime, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 63-66 (1987)

Phase-gradient Speckle-image Reconstruction: Discrete Photon Case

G. J. M. Aitken, R. Johnson, *Proc. SPIE*, 828, 47-52 (1987)

Phase-Gradient Estimation for Speckle Image Reconstruction

G. J. M. Aitken, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 59-62 (1987)

Imaging by Optical Aperture Synthesis

J. E. Baldwin, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 139-142 (1987)

Automatic Deconvolution and Phase Retrieval

R. H. T. Bates, R. G. Lane, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 71-73 (1987)

Automatic Deconvolution and Phase Retrieval

R. H. T. Bates, R. G. Lane, *Proc. SPIE*, 828, 158-164 (1987)

Gerchberg-Saxton Phase Retrieval when Image Magnitude is Given only Approximately

R. H. T. Bates, W. R. Fright, P. H. Gardenier, *Proc. SPIE*, 828, 171-176 (1987)

Effect of the Atmosphere on Measurement of Correlations of Intensity

M. J. Beran, A. M. Whitman, *Proc. SPIE*, 828, 122-126 (1987)

Estimation of Image Distributions from Limited Intensity Data

H. M. Berenyi, L. V. Byrne, M. A. Fiddy, *Proc. SPIE*, 828, 177-183 (1987)

Efficient Method of Support Reduction

B. J. Brames, *Opt. Commun.*, 64, 333-337 (1987)

Estimation of Continuous Object Distribution from Limited Fourier Magnitude Data

C. L. Byrne, M. A. Fiddy, *J. Opt. Soc. Am. A*, 4, 112-117 (1987)

Fourier Inversion and Deconvolution Methods

M. L. Cobb, D. W. McCarthy, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 197-200 (1987)

Radio-interferometric Imaging of Weak Objects in Conditions of Poor Phase Stability: The Relationship Between Speckle Masking and Phase Closure Methods

T. J. Cornwell, *Astron. Astrophys.*, 180, 269-274 (1987)

The Role of Analyticity in Image Recovery

M. A. Fiddy, *Image Recovery: Theory and Applications*, Ch. 13, ed. Stark, Academic Press (1987)

Image Reconstruction from Fourier Modulus Samples

J. R. Fienup, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 67-70 (1987)

Phase Retrieval from Fourier Intensity Data

J. R. Fienup, *Proc. SPIE*, 828, 13-18 (1987)

Deconvolution from Wavefront Sensing

J. C. Fontanella, J. Primot, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 209-214 (1987)

A Cellular Automated Method for Phase Unwrapping

D. C. Ghiglia, G. A. Mastin, *J. Opt. Soc. Am. A*, 4, 267-280 (1987)

Imaging Correlography with Sparse Collecting Apertures

P. S. Idell, J. R. Fienup, *Proc. SPIE*, 828, 140-148 (1987)

Comparison of Phase Retrieval Filter Methods

P. W. Kiedron, *Proc. SPIE*, 828, 165-170 (1987)

Deviation and Simulation of an Imaging Correlography Algorithm: a Modification of the Idell-Fineup Algorithm

K. -S. Kim, D. Caballero, *Proc. SPIE*, 828, 153-156 (1987)

Relevance for Blind Deconvolution of Recovering Fourier Magnitude from Phase

R. G. Lane, R. H. T. Bates, *Opt. Comm.* (1987)

Automatic Multidimensional Deconvolution

R. G. Lane, R. H. T. Bates, *J. Opt. Soc. Am. A*, 4, 180-188 (1987)

Resolution and Robustness in Image Processing: a New Regularization Principle on Principle

A. Lannes, S. Roques, M. J. Casanove, *J. Opt. Soc. Am. A*, 4-1, 189-199 (1987)

Stability Conditions and Regularization Procedures

A. Lannes, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 187-190 (1987)

Stabilized Reconstruction in Signal and Image Processing I. Partial Deconvolution and Spectral Extrapolation with Limited Field

A. Lannes, S. Roques, M. J. Casanove, *J. Mod. Opt.*, 34 (2), 161-226 (1987)

Stabilized Reconstruction in Signal and Image Processing. II. Iterative Reconstruction with and without Constraint-interactive Implementation

A. Lannes, H. J. Casanove, S. Rogers, *J. Mod. Opt.*, 34, 321 (1987)

Reconstruction d'Images en Astronomie par Utilisation d'un Telescope a Pupille Fente

F. Martin, H. Touma, A. Bijaoui, C. Aime, *J. Optics (Paris)*, 18 (3), 133-138 (1987)

Reconstruction of Images Made Through Turbulent Media: Analysis and Comparison of Selected Methods

J. L. Rapier, C. -C. Liu, D. C. Watson, *Proc. SPIE*, 828, 81-86 (1987)

A Comparison of the Determination of Closure Phase in Optical Interferometry with Fully Filled Apertures and Non-redundant Aperture Masks

A. C. S. Readhead, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 143-152 (1987)

Interferogram Analysis Using Fourier Transform Techniques

C. Roddier, F. Roddier, *Appl. Opt.*, 26 (9), 1668-1673 (1987)

Signal-to-Noise Ratios and Beam Combination

F. Roddier, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 135-138 (1987)

Redundant Versus Non-redundant Beam Recombination in Aperture Synthesis with Coherent Optical Array

F. Roddier, *J. Opt. Soc. Am. A*, 4, 1396 (1987)

Imaging Stellar Structures and Surfaces

F. Roddier, *Proc. 27th Liege International Astrophysics, "Observational Astrophysics with High Precision Data"* (1987)

Signal-to-Noise Ratios and Beam Combination

RoOrl, F. Roddier, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 135-138 (1987)

Phase Retrieval for Nonnegative and Finite-extent Objects

O. Sasaki, T. Yamagami, *J. Opt. Soc. Am. A.*, 4, 720-726 (1987)

Image Recovery: Theory and Application

H. Stark, Academic Press (1987)

On the Saturation of the Refractive Index Structure Function. I - Enhanced Hopes for Long Baseline Optical Interferometry

P. Venkatakrishnan, S. Chatterjee, *M. N. R. A. S.*, 224, 265 (1987)

On the Saturation of the Refractive Index Structure Function. II. Influence of the Correlation Length on Astronomical Seeing

P. Venkatakrishnan, *M. N. R. A. S.*, 229, 379-382 (1987)

Image Reconstruction in the Presence of Noise

D. C. Watson, L. B. Race, *Proc. SPIE*, 828, 149-152 (1987)

Iterative Blind Deconvolution Method and Its Applications

G. R. Ayers, J. C. Dainty, *Opt. Lett.*, 13, 547-549 (1988)

Characterization of the Double-interval Probability Distribution as a Tool for Signal or Image Recovery

M. P. Cagigal, *Opt. Lett.*, 13, 262-263 (1988)

Photon Correlation of Images Through Turbulence

J. C. Dainty, D. N. Qu, M. J. Northcott, *Proc. SPIE*, 976, Imperial College, 168 (1988)

Phase Retrieval in Imaging

H. A. Ferwerda, *Appl. Opt.*, 27, 405-408 (1988)

Object Reconstruction from Photon-limited Centroided Data of Randomly Translating Images

L. C. de Freitas, J. C. Dainty, *Opt. Lett.*, 13, 264-266 (1988)

Maximum-likelihood Image Restoration Adapted for Noncoherent Optical Imaging

T. J. Holmes, *J. Opt. Soc. Am. A.*, 5, 666-673 (1988)

Super-resolution Using the Gershberg Algorithm

L. M. Karie, J. C. Dainty, *Opt. Commun.*, 68, 11-17 (1988)

Probabilistic Algorithm for Phase Retrieval

K. A. Marsh, J. M. Richardson, *J. Opt. Soc. Am. A.*, 5, 993-998 (1988)

Maximum-entropy Image Restoration = Lagrange and Recursive Techniques

E. S. Meinel, *J. Opt. Soc. Am. A.*, 5, 25-29 (1988)

Performance of a Simulated-annealing Algorithm for Phase Retrieval

M. Nieto-Vesperinas, R. Navarro, F. J. Fuentes, *J. Opt. Soc. Am. A.*, 5, 30-38 (1988)

Phase Retrieval Using the Logarithmic Hilbert Transform and the Fourier-series Expansion

N. Nakajima, *J. Opt. Soc. Am. A.*, 5, 257-262 (1988)

Optical Misalignment Sensing and Image Reconstruction Using Phase Diversity

R. G. Paxman, J. R. Fienup, *J. Opt. Soc. Am. A.*, 5, 914-923 (1988)

Wave-front Phase Estimation from Fourier Intensity Measurements

J. N. Cederquist, J. R. Fienup, C. C. Wackerman, S. R. Robinson, D. Kryskowski, *J. Opt. Soc. Am. A.*, 6, 1020-1026 (1989)

Application of Zernike Polynomials to Atmospheric Propagation Problems

P. H. Hu, J. Stone, T. Stanley, *J. Opt. Soc. Am. A.*, 6, 1595-1608 (1989)

Statistical Properties of the Photon-address, Phase-gradient Algorithm

R. Johnson, G. J. M. Aitken, *J. Opt. Soc. Am. A.*, 6, 56-61 (1989)

Towards a Strategy for Automatic Phase Retrieval from Noisy Fourier Intensities

B. C. McCallum, R. H. T. Bates, *36*, 619-648 (1989)

Partial Correction of Astronomical Images with Active Mirrors

R. C. Smithson, M. L. Peri, *J. Opt. Soc. Am. A.*, *6*, 92-97 (1989)

The Two-color Method for Optical Astrometry: Theory and Preliminary Measurements with the Mark III Stellar Interferometer

M. Colavita, M. Shao, D. H. Staelin, *Appl. Opt.* (in press)

Interferometric Imaging in Optical Astronomy

F. Roddier, *Physics Reports*, (in press)

Deconvolution of Intensity Correlation Functions

G. R. Ayers, E. J. Spillar, *Proc. S.P.I.E. No. 1351*, in press (1990)

Coherent Light Visibility Imaging

W, P. Brown, *Proc. S.P.I.E. No. 1351*, in press (1990)

Image Reconstruction Using the Phase Variance Algorithm

J. R. Fienup, *Proc. S.P.I.E. No. 1351*, in press (1990)

Aberration Correction for Phased-array Telescope Using Phase Diversity

R. G. Paxman, S. L. Crippen, C. R. DeHainaut, *Proc. S.P.I.E. No. 1351*, in press (1990)

New Method for Forming Images of Objects from Their Fourier Magnitude

T. J. Schulz, D. L. Snyder, *Proc. S.P.I.E. No. 1351*, in press (1990)

2. SPECKLE INTERFEROMETRY:

Attainment of Diffraction-limited Resolution in Large Telescopes by Fourier Analysing Speckle Patterns in Star Images

A. Labeyrie, *Astron. Astrophys.*, 6, 85-87 (1970)

Measurement of Spatial Coherence Using Speckle Patterns

T. Asakura, H. Fujii, K. Murata, *Opt. Acta*, 19, 273-290 (1972)

Information Retrieval from Atmospheric Induced Speckle Patterns

D. Korff, G. Dryden, G. Miller, *Opt. Comm.*, 5, 187-192 (1972)

New Methods of Processing Speckle Pattern Star Images

K. T. Knox, B. J. Thompson, *Ap. J.*, 182, L133-136 (1973)

The Transfer Function, Signal-to-noise Ratio and Limiting Magnitude in Stellar Speckle Interferometry

J. C. Dainty, *M. N. R. A. S.*, 169, 631-641 (1974)

Resolution of Partially Coherent Objects by Use of Speckle Interferometry

M. G. Miller, D. Korff, *J. Opt. Soc. Am.*, 64, 155-161 (1974)

Image Information by Means of Speckle-Pattern Processing

P. H. Deitz, *J. Opt. Soc. Am.*, 65, 279-285 (1975)

Signal-to-noise Ratio in Speckle Interferometry

F. Roddier, *Proc. OSA Topical Meeting, "Imaging in Astronomy"*, ThC6 1-4 (1975)

Large Field Speckle Interferometry

G. Weigelt, *Optik*, 43, 111-128 (1975)

Speckle Interferometry Lens-Atmosphere MTF Measurements

D. P. Karo, A. M. Schneiderman, *J. Opt. Soc. Am.*, 66, 1252-1256 (1976)

One Dimensional Stellar and Solar Speckle Interferometry

C. Aime, F. Roddier, *Opt. Comm.*, 21, 435-438 (1977)

Recovery of Fringe Visibility from Recorded Speckle Images Quantised to Two Level

R. H. T. Bates, *M. N. R. A. S.*, 181, 365-374 (1977)

Transfer Functions, Correlation Scales and Phase Retrieval in Speckle Interferometry

D. P. Karo, A. M. Schneiderman, *J. Opt. Soc. Am.*, 67, 1583-1587 (1977)

Speckle Interferometry with Severely Aberrated Telescopes

D. P. Karo, A. M. Schneiderman, *J. Opt. Soc. Am.*, 67, 1277-1278 (1977)

Noise Considerations in Stellar Speckle Interferometry

M. G. Miller, *J. Opt. Soc. Am.*, 67, 1176-1184 (1977)

The Signal-to-Noise Ratio in Speckle Interferometry

J. C. Dainty, A. H. Greenaway, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"*, Paper 23 (1978)

Angular Dependence of Atmospheric Turbulence Effect in Speckle Interferometry

D. L. Fried, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"*, Paper 26 (1978)

Speckle Interferometry at Finite Bandwidths and Exposure Times

D. P. Karo, A. M. Schneiderman, *J. O. S. A.*, 68, 480-485 (1978)

Defocussing Effects in Astronomical Speckle Interferometry

F. Roddier, G. Ricort, C. Roddier, *Opt. Comm.*, 24, 281-284 (1978)

Statistics of Stellar Speckle Patterns

R. J. Scaddan, J. G. Walker, *Appl. Opt.*, 17, 3779-3784 (1978)

Two-point Speckle Interferometry

A. A. Tokovinin, *Sov. Astron. Lett.*, 4, 204-206 (1978)

Optimum Exposure Time and Filter Bandwidth in Speckle Interferometry

J. G. Walker, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"*, Paper 25 (1978)

Astro-speckle Interferometry with Multiple Mirror Telescopes

J. Bialecki, A. W. Lohmann, G. P. Weigelt, *Optik*, 53, 323-331 (1979)

Estimation of Spatial Power Spectra in Speckle Interferometry

J. C. Dainty, A. H. Greenaway, *J. Opt. Soc. Am.*, 69, 786-790 (1979)

Noise in Speckle Interferometry and in Speckle Imagery

D. L. Fried, *Report TR-79-331*, ed. The Optical Sciences Company (1979)

Angular Dependence of Atmospheric Turbulence Effect in Speckle Interferometry

D. L. Fried, *Opt. Acta*, 26, 597-613 (1979)

Speckle Interferometry

A. Labeyrie, *The Messenger*, 15, 9-11 (1979)

A Note on Two Aperture Pupil Plane Stellar Speckle Interferometry

W. J. Tango, *Opt. Acta*, 26, 109-111 (1979)

Signal to Noise Ratio in Speckle Interferometry in the Photon Counting Autocorrelation Mode at Low Light Level

J. G. Walker, *Opt. Comm.*, 29, 273-278 (1979)

Extending the Bandwidth of Speckle Interferometry

C. G. Wynne, *Opt. Commun.*, 28, 21-25 (1979)

Towards True Imaging by Wideband Speckle Interferometry

R. H. T. Bates, F. M. Cady, *Opt. Comm.*, 32, 365-369 (1980)

Optical Interferometer with High Frequency Photon Counter

S. Isobe, A. Atsushi, M. Noguchi, T. Hirayama, *Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s"*, 984-998 (1980)

Space-Time Analysis of Photon-Limited Stellar Speckle Interferometry

K. A. O'Donnell, J. C. Dainty, *J. Opt. Soc. Am.*, 70, 1354-1361 (1980)

Stellar Speckle Interferometry and Speckle Holography at Low Light Levels

G. Weigelt, *Proc. SPIE*, 243, 103-110 (1980)

A Method of Determining Object Intensity Distributions in Stellar Speckle Interferometry

B. J. Brames, J. C. Dainty, *J. Opt. Soc. Am.*, 71, 1542-1545 (1981)

Space-time Correlation of Stellar Speckle Patterns

J. C. Dainty, D. R. Hennings, K. A. O'Donnell, *J. Opt. Soc. Am.*, 71, 490-492 (1981)

Isoplanatism in Speckle Interferometry and Adaptive Optics

A. H. Greenaway, *Proc. Sac. Peak. Conf., "Solar Instrumentation: What's Next?"*, 403-420 (1981)

Speckle Interferometrie a Une Dimension en Astronomie: Etude des Fonctions de Transfert Instrument-atmosphere Obtenues par Analyse Statistique des Speckles Stellaires Fournis Par un Objectif Rectangulaire

S. Kadiri, C. Aime, G. Ricort, *J. Optics (Paris)*, 12, 143-151 (1981)

Speckle Interferometry in the Infrared

P. Lena, *Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths"*, 123-138 (1981)

Statistical Accuracy in Stellar Speckle Interferometry at Low Light Levels

J. G. Walker, *Opt. Acta*, 28, 885-905 (1981)

Speckle Interferometry, Speckle Holography, Speckle Spectroscopy, and Reconstruction of High-resolution Images from ST Data

G. Weigelt, *Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths"*, 95-114 (1981)

Experiments in Differential Speckle Interferometry

J. M. Beckers, E. K. Hege, *Proc. IAU Coll. #67, "Instrumentation for Astronomy with Large Optical Telescopes"*, 199-206 (1982)

Differential Speckle Interferometry

J. M. Beckers, *Opt. Acta*, 361-362 (1982)

Application de l'Analyse Interspectrale a Speckle Interferometrie

R. Petrov, S. Kadiri, F. Martin, G. Ricort, C. Aime, *J. Optics (Paris)*, 13, 331-337 (1982)

On the Isoplanatic Patch Size in Stellar Speckle Interferometry

F. Roddier, J. M. Gilli, J. Vernin, *J. Optics (Paris)*, 13, 63-70 (1982)

On the Origin of Speckle Boiling and Its Effects in Stellar Speckle Interferometry

F. Roddier, J. M. Gilli, G. Lund, *J. Optics (Paris)*, 13, 263-271 (1982)

One-dimensional Telescope Aperture for Brightness and Velocity Speckle Interferometry Measurement

C. Aime, J. Demarcq, F. Martin, G. Ricort, *Proc. SPIE*, 332, 436-439 (1983)

C. Aime, J. Demarcq, F. Martin, G. Ricort, *Proc. SPIE*, 332, 436-439 (1983)

One-dimensional Telescope Aperture for Brightness and Velocity Speckle Interferometry Measurement

C. Aime, J. Demarcq, F. Martin, G. Ricort, *Opt. Engr.*, 22, 224-226 (1983)

Digital Photon-counting Speckle Interferometry

G. Baier, E. Keller, G. Weigelt, *Signal Processing II: Theories and Applications*, ed. H. W. Schussler (Elsevier Sci. Pub. B. V., North Holland, Eurasip) (1983)

The Effectiveness of Astronomical Speckle Transfer Function Reweighting Algorithm

R. Barakat, P. Nisenson, *Opt. Comm.*, 45, 311-316 (1983)

Wave-front Dislocations: Topological Limitations for Adaptive Systems with Phase Conjugation

N. B. Baranova, A. V. Mamaev, N. F. Philipetsky, V. V. Shkunov, B. Y. Zel'dovitch, *J. Opt. Soc. Am.*, 73, 525-528 (1983)

Differential Speckle Interferometry: A New Tool for Double Star Research

J. M. Beckers, *Proc. IAU Coll. #62, "Current Techniques in Double and Multiple Star Research"*, (Lowell Obs. Bull. No. 167), 199-206 (1983)

Speckle Interferometry Degraded by Irregular Motion of a Scanning Telescope Mirror

C. Leinert, H. M. Dyck, *Appl. Opt.*, 22, No. 16, 2403-2404 (1983)

Maximum-magnitude Estimation of the Object's Power Spectrum in Stellar Speckle Interferometry

D. J. Granrath, *Opt. Lett.*, 9, 478-480 (1984)

Identification of Speckles by Matched Filtering

E. Ribak, E. K. Hege, J. C. Christou, *Bull. Am. Ast. Soc.*, 16, 885, (abstract) (1984)

Effects of Finite Spectral Bandwidth and Focusing Error on the Transfer Function in Stellar Speckle Interferometry

J. Ohtsubo, *J. Opt. Soc. Am. A*, 2, 667, 673 (1985)

Contribution to the Space-time Study of Stellar Speckle Patterns

C. Aime, J. Borgnino, S. Kadiri, F. Martin, R. Petrov, G. Ricort, *J. Opt. Soc. Am. A*, 3, 1001-1009 (1986)

Speckle Interferometry and Imaging

J. C. Dainty, *Proc. Conf., "Optical and Millimetric Wave Propagation and Scattering in the Atmosphere"*, 51-54 (1986)

Signal-to-Noise Ratio in Photon Counting Speckle Interferometry with Real Detector

S. Ebstein, *Proc. OSA Topical Meeting, "Quantum-limited Imaging and Image Processing"*, 32-35 (1986)

Etude des Anisotropies des Fonctions de Transfert Optiques de Quelques Telescopes

S. Kadiri, R. Petrov, F. Martin, G. Ricort, J. Borgnino, C. Aime, *J. Optics (Paris)*, 17, 67-76 (1986)

Signal-to-noise Ratio in Differential Speckle Interferometry

R. Petrov, F. Roddier, C. Aime, *J. Opt. Soc. Am. A*, 3, 634-644 (1986)

Data Reduction for Stellar Speckle Interferograms of Binary Stars Based on the Shift-and-add Method

N. Baba, S. Isobe, M. Noguchi, Y. Norimoto, N. Miura, *Appl. Opt.*, 26, 2306-2310 (1987)

Imaging by Optical Aperture Synthesis

J. E. Baldwin, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 139-142 (1987)

Aspects of the Erlangen Bispectrum

R. H. T. Bates, *Optik* (1987)

Stellar Speckle Interferometry Energy Spectrum Recovered by Convex Projections

S. Ebstein, *Appl. Opt.*, 1530-1536 (1987)

Speckle Interferometry and Maximum Probability Methods

S. M. Ebstein, D. Korff, *Proc. SPIE*, 828, 73-80 (1987)

Atmospheric Noise on the Bispectrum in Optical Speckle Interferometry

S. N. Karbelkar, R. Nityananda, *J. Astrophys. Astron.*, 8, No. 3, 271-274 (1987)

Calibration Problems in Solar Speckle Interferometry

O. von der Luhe, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 9-12 (1987)

Phase-gradient Reconstruction from Photon-limited Stellar Speckle Images: Erratum

G. J. M. Aitken, R. Johnson, *Appl. Opt.*, 27, 215 (1988)

Binary Star Intensity Ratios by the Fork Algorithm

W. G. Bagnuolo, Jr., *Opt. Lett.*, 13, 907-909 (1988)

Application of Bispectrum Analysis for Phase Recovery from One-dimensional Infrared Speckle Data

J. D. Freeman, J. C. Christou, F. Roddier, D. W. McCarthy, M. L. Cobb, *J. Opt. Soc. Am. A.*, 5, 406-415 (1988)

Effect of Spectral Bandwidth on the MTF in Stellar Speckle Interferometry

J. Ohtsubo, T. Eiju, K. Tomita, M. Noguchi, T. Kanda, T. Kohno, *Opt. Comm.*, 65 (2), 79-83 (1988)

Effect of Clipping Threshold of Clipped Speckle Intensity

J. Ohtsubo, A. Ogiwara, *Opt. Comm.*, 65 (2), 73-78 (1988)

Polychromatic Transfer Functions in Stellar Speckle Interferometry

J. Borgnino, C. Aime, F. Martin, R. G. Petrov, G. Ricort, M. Lazrek, *J. Opt. Soc. Am. A.*, 6, 244-251 (1989)

Simulated Annealing Image Reconstruction in Photon-limited Stellar Speckle Interferometry

R. Navarro, F. J. Fuentes, M. Nieto-Vesperinas, *Astron. Astrophys.*, 208, 374-38 (1989)
Erratum, Astron. Astrophys., 219, 362 (1989)

3. SPECKLE IMAGING:

Recovery of Images from Atmospherically Degraded Short-Exposure Images

K. T. Knox, B. J. Thompson, *Ap. J.*, 193, L45-L48 (1974)

Image Reconstruction in Speckle Interferometry

D. P. Karo, A. M. Schneiderman, *Proc. OSA Topical Meeting, "Imaging in Astronomy"* (1975)

Real-Time Speckle Imaging

P. Nisenson, R. V. Stachnik, *Proc. OSA Topical Meeting, "Imaging in Astronomy"* (1975)

Image Retrieval from Astronomical Speckle Patterns

K. T. Knox, *J. Opt. Soc. Am.*, 66, 1236-1239 (1976)

Astronomical Speckle Imaging

P. Nisenson, D. C. Ehn, R. V. Stachnik, *Proc. SPIE*, 75, 83-88 (1976)

Photon Noise Limitations on the Recovery of Stellar Images by Speckle Interferometry

M. E. Barnett, G. Parry, *Opt. Comm.*, 21, 60-62 (1977)

Modified Astronomical Speckle Interferometry, Speckle Masking

G. Weigelt, *Opt. Comm.*, 21, 55-59 (1977)

Phaseless Aperture Synthesis

J. E. Baldwin, P. J. Warner, *M. N. R. A. S.*, 182, 411-422 (1978)

Towards High Resolution Imaging by Speckle Interferometry

R. H. T. Bates, M. O. Milner, G. I. Lund, A. D. Seager, *Opt. Comm.*, 26, 22-26 (1978)

Image Reconstruction from Astronomical Speckle Interferograms

A. W. Lohmann, G. P. Weigelt, *Proc. ESO/CERN Conf., "Optical Telescopes of the Future"*, 479-493 (1978)

Speckle Imaging Using the Principal Value Decomposition Method

J. W. Sherman, *Proc. SPIE*, 149, 82-90 (1978)

Speckle Interferometry and Image Reconstruction

G. Weigelt, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"*, Paper 33 (1978)

Towards Imaging of Star Clusters by Speckle Interferometry

R. H. T. Bates, M. O. Milner, *Proc. IAU Coll. #49, "Image Formation from Coherence Functions in Astronomy"*, 187-193 (1979)

Noise in Speckle Interferometry and in Speckle Imagery

D. L. Fried, *Report TR-79-331*, ed. The Optical Sciences Company (1979)

Fast FFT-Based Algorithm for Phase Estimation in Speckle Imaging

R. L. Frost, C. K. Rushforth, B. S. Baxter, *Appl. Opt.*, 18, 2056-2061 (1979)

Speckle Imaging, Photon by Photon

L. N. Mertz, *Appl. Opt.*, 18, 611-614 (1979)

A Method for Processing Speckle Images Requiring No Reference Point Source

Y. M. Bruck, L. G. Sodin, *Astron. and Astrophys.*, 87, 188-191 (1980)

Speckle Processing Gives Diffraction-limited True Images from Severely Aberrated Instrument

F. M. Cady, R. H. T. Bates, *Opt. Lett.*, 5, 438-440 (1980)

Speckle Imaging under Non-Isoplanatic Conditions

J. W. Sherman, *Proc. SPIE*, "Applications of Speckle Phenomena", 51-57 (1980)

Stellar Speckle Interferometry and Speckle Holography at Low Light Levels

G. Weigelt, *Proc. SPIE*, 243, 103-110 (1980)

Influence of the Wave-front Correlation Function and Deterministic Wave-front Aberrations on the Speckle Image-reconstruction Problem

R. Barakat, P. Nisenson, *J. Opt. Soc. Am.*, 71, 1390-1402 (1981)

Differential Speckle Interferometry

J. M. Beckers, *Proc. ICO-12 Conf.*, "Current Trends in Optics", 137 (1981)

Speckle Interferometry, Speckle Holography, Speckle Spectroscopy, and Reconstruction of High-resolution Images from ST Data

G. Weigelt, *Proc. ESO Conf.*, "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths", 95-114 (1981)

Astronomical Speckle Imaging

R. H. T. Bates, *Physics Reports*, 90, 203-297 (1982)

Towards Imaging with a Speckle Interferometric Optical Synthesis Telescope

R. H. T. Bates, W. R. Fright, *M. N. R. A. S.*, 198, 1017-1031 (1982)

Aspects of Speckle Interferometric Imaging

R. H. T. Bates, B. R. Hunt, B. S. Robinson, W. R. Fright, P. T. Gough, *Proc. IEE Conf.*, 214, 164-168 (1982)

Diffraction Limited Pictures from a Single Turbulence-Degraded Image in Astronomy

A. H. Greenaway, *Opt. Comm.*, 42, 157-161 (1982)

A Technique for Obtaining Diffraction Limited Pictures from a Single Large-aperture Small-exposure Image

N. R. Arnot, *Opt. Comm.*, 45, 380-384 (1983)

The Solution to the Phase Retrieval Problem Using the Sampling Theorem

H. H. Arsenault, K. Chalasinska-Macukow, *Opt. Comm.*, 47, 380-386 (1983)

Uncertainty on Phase Reconstruction Using the Knox-Thompson Algorithm

R. Deron, J. C. Fontanella, *Proc. AAS/OSA Joint Topical Meeting*, "Information Processing in Astronomy and Optics", FALL (1983)

Speckle Masking in Astronomy: Triple Correlation Theory and Application

A. W. Lohmann, G. P. Weigelt, B. Wirnitzer, *Appl. Opt.*, 22, 4028-4037 (1983)

Effects of Photon Noise on Speckle Image Reconstruction with the Knox-Thompson Algorithm
P. Nisenson, C. Papaliolios, *Opt. Comm.*, 47 (2), 91-96 (1983)

Speckle Imaging for Planetary Research
P. Nisenson, J. Apt, R. Goody, C. Papaliolios, *Icarus*, 53, 465-478 (1983)

Image Reconstruction by the Speckle Masking Method
G. Weigelt, B. Wirtzner, *Opt. Lett.*, 8, 389-391 (1983)

Phase Unwrapping Method Along Radial Coordinates for Speckle Image Reconstruction
N. Baba, F. Kawaguchi, T. Ose, S. Isobe, *Opt. Comm.*, 49 (1), 11 (1984)

Effect of Nonisoplanicity on the Shift-and-add Algorithm
W. G. Bagnuolo, *Opt. Lett.*, 9, 65-67 (1984)

Phase and Amplitude Recovery from Bispectra
H. Bartelt, A. W. Lohmann, B. Wirtzner, *Appl. Opt.*, 23, 3121-3129 (1984)

Speckle Processing, Shift-and-add, and Compensating for Instrument Aberration
R. H. T. Bates, W. R. Fright, F. M. Cady, G. J. Berzins, *Proc. SPIE*, 373, 197-202 (1984)

Optical Astronomical Speckle Imaging
R. H. T. Bates, *Proc. URSI/IAU Symp.*, "Indirect Imaging", 91-98 (1984)

Speckle Interferometry Image Reconstruction from the Fourier Transform Phase
Y. M. Bruck, L. G. Sodin, *J. Opt. Soc. Am. A*, 1, 73 (1984)

Speckle Image Reconstruction: Weighted Shift-and-add Analysis
J. C. Christou, E. K. Hege, J. D. Freeman, P. A. Strittmatter, *Bull. Am. Ast. Soc.*, 16, 885 (abstract) (1984)

Restauration d'Images Degradees Par la Turbulence Atmospherique Selon la Methode de Knox et Thompson. Etude Theorique et Experimentale
R. Deron, J. C. Fontanella, *J. Optics (Paris)*, 15, 15-23 (1984)

Image Restoration by the Shift-and-add Algorithm
W. G. Bagnuolo, *Opt. Lett.*, 10, 200-202 (1985)

Generalisation of Shift-and-add Imaging
R. H. T. Bates, A. M. Sinton, R. A. Minard, *Proc. SPIE*, 556, 263-269 (1985)

Images from Astronomical Speckle Data: Weighted Shift-and-add Analysis
J. C. Christou, E. K. Hege, J. D. Freeman, E. Ribak, *Proc. SPIE*, 556, 255-262 (1985)

Problems in Image Reconstruction with Optical Arrays
A. Labeyrie, *Proc. ESA Coll.*, "Kilometric Optical Arrays in Space", 117-120 (1985)

High-resolution Speckle Imaging of Solar Small-scale Structure: The Influence of Anisoplanatism
O. von der Luhe, *Lecture Notes in Physics*, 233, "High Resolution in Solar Physics", ed. R. Muller (Springer Verlag), 96-102 (1985)

The Speckle Masking Transfer Function

O. von der Luhe, *Astron. Astrophys.*, 150, 229-231 (1985)

Bispectral Analysis at Low Light Levels and Astronomical Speckle Masking

B. Wirnitzer, *J. Opt. Soc. Am. A*, 2, 14-21 (1985)

Recovery of Astronomical Images from a Dichromatic Analysis of Speckles

C. Aime, *Proc. Florence Conf., "Optical and Millimetric Wave Propagation and Scattering in the Atmosphere"*, 55-58 (1986)

Phase Retrieval from a Dichromatic Analysis of Speckles

C. Aime, *Opt. Lett.*, 11, 597-599 (1986)

Closure Phase in High-resolution Optical Imaging

J. E. Baldwin, C. A. Haniff, C. D. Mackay, J. P. Warner, *Nature*, 370, 595-597 (1986)

Images from Astronomical Speckle Data: Weighted Shift-and-add Analysis

J. C. Christou, E. Ribak, E. K. Hege, J. D. Freeman, *Optical Engr.*, 25, 724-730 (1986)

A Self-Calibrating Shift-and-Add Technique for Speckle Imaging

J. C. Christou, E. K. Hege, J. D. Freeman, E. Ribak, *J. Opt. Soc. Am. A*, 3, 204-209 (1986)

Speckle Interferometry and Imaging

J. C. Dainty, *Proc. Florence Conf., "Optical and Millimetric Wave Propagation and Scattering in the Atmosphere"*, 51-54 (1986)

Imaging a Randomly Translating Object Using the Triple Correlation

J. C. Dainty, M. J. Northcott, *Proc. OSA Topical Meeting, "Quantum-limited Imaging and Image Processing"*, 102-105 (1986)

Imaging a Randomly Translating Object at Low Light Levels Using the Triple Correlation

J. C. Dainty, M. J. Northcott, *Opt. Comm.*, 58, 11-14 (1986)

Zero-and-add

B. L. K. Davey, A. M. Sinton, R. H. T. Bates, *Optical Engr.*, 25, 765-771 (1986)

Triple Correlation as a Phase Closure Technique

F. Roddier, *Opt. Comm.*, 60, 145-148 (1986)

Restoration of Turbulence Degraded Images Using the Knox and Thompson Algorithm

Seve, *Proc. SPIE*, 627, 829-837 (1986)

Augmenting Shift-and-add with Zero-and-add

A. M. Sinton, B. L. K. Davey, R. H. T. Bates, *J. Opt. Soc. Am. A*, 3, 1010-1017 (1986)

Astronomical Speckle Interferometry and Speckle Masking at Low Light Levels

G. Weigelt, *Proc. OSA Topical Meeting, "Quantum-limited Imaging and Image Processing"*, 24-27 (1986)

Phase Retrieval from a Polychromatic Speckle Analysis

C. Aime, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 85-88 (1987)

Proposition d'Imagerie Probabiliste de Systemes d'Etoiles en Interferometrie de Speckle

C. Aime, *J. Optics (Paris)*, 18 (3), 101-110 (1987)

Phase-gradient Reconstruction from Photon-limited Stellar Speckle Images

G. J. M. Aitken, R. Johnson, *Appl. Opt.*, 26, 4246-4249 (1987)

Towards Making Shift-and-add a Versatile Speckle Imaging Technique

R. H. T. Bates, B. L. K. Davey, *Proc. SPIE*, 828, 87-94 (1987)

The Weighted Shift-and-Add Method

J. C. Christou, J. D. Freeman, E. K. Hege, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 51-54 (1987)

Application of Bispectrum Analysis to Infrared Speckle Data

J. C. Christou, J. D. Freeman, F. Roddier, D. W. McCarthy, M. L. Cobb, S. B. Shaklan, *Proc. SPIE*, 828, 32-39 (1987)

The Modified Knox-Thompson Algorithm

J. C. Fontanella, A. Seve, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 29-36 (1987)

Reconstruction of Turbulence-degraded Images Using the Knox-Thompson Algorithm

J. C. Fontanella, A. Seve, *J. Opt. Soc. Am. A*, 4, 438-448 (1987)

Towards a Fast Triple Correlation Algorithm

D. J. Granath, E. K. Hege, R. Greene, R. Kruger, *Proc. SPIE*, 828, 95-100 (1987)

Image Reconstruction from Long-Baseline Interferograms by Speckle Masking

K. -H. Hofman, T. Reinheimer, G. Weigelt, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 157-160 (1987)

Astronomical Speckle Masking: Image Reconstruction by Cross Triple Correlation

K. -H. Hofmann, G. Weigelt, *Appl. Opt.*, 26, 2011 (1987)

Optical Long-baseline Interferometry and Aperture Synthesis by Speckle Masking

T. Reinheimer, G. Weigelt, *Astron. Astrophys.*, 176, L17-L20 (1987)

High Resolution Astronomical Imaging by Triple Correlation Processing

G. Weigelt, *Proc. SPIE*, 828, 8-12 (1987)

Knox-Thompson and Triple-correlation Imaging Through Atmospheric Turbulence

G. R. Ayers, M. J. Northcott, J. C. Dainty, *J. Opt. Soc. Am. A*, 5, 963-985 (1988)

Wide-band Speckle Spectroscopy Based on Shift-and-add Method

N. Baba, M. Tabata, K. Murata, *Opt. Lett.*, 13, 616-618 (1988)

A Posterity-based Constraint on the Phase Variance of Bispectral Coefficients

D. J. Granath, *Optics Commun.*, 67, 107-111 (1988)

Atmospheric Noise on the Bispectrum: Limiting Faintness for Binary Stars

S. N. Karbelkar, *NOAO-ESO Conference on "High Resolution Imaging by Interferometry"*, Garching, 217-223 (1988)

Signal Transfer Function of the Knox-Thompson Speckle Imaging Technique

O. von der Luhe, *J. Opt. Soc. Am. A.*, 5, 721-729 (1988)

Algorithms for Image Reconstruction from Photon-limited Data Using Triple Correlation

M. J. Northcott, G. R. Ayers, J. C. Dainty, *J. Opt. Soc. Am. A.*, 5, 986-992 (1988)

Phase Variances from Triple Correlation Analysis

F. Roddier, J. C. Christou, 65, 115-120 (1988)

Diffraction-limited Imaging from the Ground: Measurement of Stellar Spatial Spectra

G. J. M. Aitken, *P. A. S. P.*, 101, 471-488 (1989)

Technical Aspects of the Speckle Masking Phase Reconstruction Algorithm

E. Pehlemann, O. von der Luhe, *Astron. Astrophys.*, 216, 337-346 (1989)

Second Order Statistics of Astronomical Speckle Patterns Used for Image Reconstruction

C. Aime, E. Aristidi, H. Lanteri, G. Ricort, *Proc. S.P.I.E. No. 1351*, in press (1990)

Speckular Reflections -- Developments in Astronomical Speckle Imaging

G. R. Ayers, *Proc. S.P.I.E. No. 1351*, in press (1990)

Shear-speckle Imaging

J. F. Belsher, D. L. Fried, *Proc. S.P.I.E. No. 1351*, in press (1990)

Blind Deconvolution for Referenceless Speckle Imaging

A. M. Darling, *Proc. S.P.I.E. No. 1351*, in press (1990)

Slicing Approach to Bispectrum Estimation

D. J. Granath, *Proc. S.P.I.E. No. 1351*, in press (1990)

Image Reconstruction from the Bispectrum Using an Iterative Algorithm and Applications of the Method to Astronomical Objects

K. -H. Hofmann, W. Mauder, G. Weigelt, *Proc. S.P.I.E. No. 1351*, in press (1990)

Object Reconstruction with Intensity Correlations

P. S. Idell, *Proc. S.P.I.E. No. 1351*, in press (1990)

Weighted Least Squares Phase Reconstruction from the Bispectrum

C. L. Matson, *Proc. S.P.I.E. No. 1351*, in press (1990)

Stellar Image Reconstruction by Computationally Efficient Triple Correlation

J. Meng, G. J. M. Aitken, E. K. Hege, *Proc. S.P.I.E. No. 1351*, in press (1990)

Image Reconstruction from Power Spectrum Only Information in Photon-limited Stellar Speckle Interferometry

M. J. Perez-Illarbe, M. Nieto-Vesperinas, *Proc. S.P.I.E. No. 1351*, in press (1990)

4. GENERAL INTERFEROMETRY:

Sur l'Extreme Petitesse du Diametre Apparent des Etoiles Fixes

Stephan, C. R. *Acad. Sc. (Paris)*, 78, 1008-1112 (1874)

The Question of Correlation Between Photons in Coherent Light Rays

R. Hanbury-Brown, R. Q. Twiss, *Nature*, 178, 1447-1450 (1956)

Correlation Between Photons in Two Coherent Beams of Light

R. Hanbury-Brown, R. Q. Twiss, *Nature*, 177, 27-29 (1956)

Interferometry of the Intensity Fluctuations in Light. I. Basic Theory: The Correlation Between Photons in Coherent Beams of Radiation

R. Hanbury-Brown, R. Q. Twiss, *Proc. Roy. Soc. A*, 242, 300-324 (1957)

Correlation Between Photons, in Coherent Beams of Light, Detected by a Coincidence Counting Technique

R. Q. Twiss, A. G. Little, R. Hanbury-Brown, *Nature*, 180, 324-326 (1957)

The Question of Phase in Image Formation

E. L. O'Neill, A. Walther, *Opt. Acta*, 10, 33-40 (1963)

The Question of Phase Retrieval in Optics

A. Walther, *Opt. Acta*, 10, 41-49 (1963)

Interference Between Wavefronts Rotated or Reversed with Respect to Each Other and Its Relation to Spatial Coherence

M. V. Murty, *J. Opt. Soc. Am.*, 54, 1187-1190 (1964)

Rotary Shearing Interferometry

J. D. Armitage, A. Lohmann, *Opt. Acta*, 12, 185 (1965)

Spatial Filtering of Astronomical Photographs: II Theory

R. L. Wildey, *Astron. J.*, 72, 884-886 (1967)

A Technique for Measuring Visibility Phase with an Optical Interferometer in the Presence of Atmospheric Seeing

D. H. Rogstad, *Appl. Opt.*, 7, 585-588 (1968)

Contributions to the Theory of Intensity Interferometry

R. H. T. Bates, *M. N. R. A. S.*, 142, 413-428 (1969)

Enregistrements d'Hologrammes en Lumiere Spatialement Incoherente

S. Lowenthal, J. Serres, C. Froehly, *C. R. Acad. Sc. (Paris)*, 268 B, 841-844 (1969)

Applications of Intensity Interferometry in Physics and Astronomy

R. Q. Twiss, *Opt. Acta*, 16, 423-451 (1969)

Light Beating Spectroscopy

H. Z. Cummins, H. L. Swinney, *Progress in Optics*, 8, ed. North Holland (1970)

Point Arrays Having Compact, Nonredundant Autocorrelations

M. J. E. Golay, *J. Opt. Soc. Am.*, 61, 272-273 (1971)

A Practical Algorithm for the Determination of Phase from Image and Diffraction Plane Pictures

R. W. Gerchberg, W. O. Saxton, *Optik*, 35, 237-246 (1972)

Restoring with Maximum Likelihood and Maximum Entropy

B. R. Frieden, *J. Opt. Soc. Am.*, 62, 511-518 (1972)

Mesures Interferometriques des Diametres Apparents Stellaires

M. Cagnet, *Opt. Commun.*, 8, 430-434 (1973)

Intensity Interferometry in the Spatial Domain

P. H. Deitz, P. F. Carlson, *J. Opt. Soc. Am.*, 63, 274-280 (1973)

Analysis of a Method for Obtaining Near-Diffraction-Limited Information in the Presence of Atmospheric Turbulence

D. Korff, *J. Opt. Soc. Am.*, 63, 971-980 (1973)

Spatial Irradiance Interferometry with Sources of Arbitrary Symmetry

P. H. Deitz, P. F. Carlson, *J. Opt. Soc. Am.*, 64, 11-17 (1974)

Super-resolution through Error Energy Reduction

R. W. Gerchberg, *Opt. Acta*, 21, 709-720 (1974)

Speckle Holography

P. T. Gough, R. H. T. Bates, *Opt. Acta*, 21, 243-254 (1974)

Aperture Synthesis with a Non-regular Distribution of Interferometer Baselines

J. Hogbom, *Astrophys. J. Suppl. Ser.*, 15, 417-426 (1974)

Inferring Phase Information from Modulus Information in Two-dimensional Aperture Synthesis

P. J. Napier, R. H. T. Bates, *Astron. Astrophys. Suppl. Ser.*, 15, 427-430 (1974)

Diffraction Effects in Long Path Interferometers

W. J. Tango, R. Q. Twiss, *Appl. Opt.*, 13, 1814-1819 (1974)

Phase Retrieval and Image Reconstruction for Astronomy

J. C. Dainty, J. R. Fienup, *Image Recovery: Theory and Application, Chapter 7*, ed. H. Stark, Academic Press, 231-275 (1975)

Temporal-and-Spatial-Intensity-Interferometer Imaging Through a Random Medium

L. E. Estes, R. Boucher, *J. Opt. Soc. Am.*, 65, 760-764 (1975)

The Phase Problem

R. E. Burge, M. A. Fiddy, A. H. Greenaway, G. Ross, *Proc. R. Soc. Lond. A.*, 350, 191-212 (1976)

On the Fringe Visibility in a Michelson Interferometer

C. Roddier, F. Roddier, *J. Opt. Soc. Am.*, 66, 580-584 (1976)

Seeing Effects Removal in a Michelson Stellar Interferometer

C. Roddier, F. Roddier, *J. Opt. Soc. Am.*, 66, 1347-1350 (1976)

Physical Principles of the New Interferometric Methods

J. Ruder, *Mitt. Astron. Ges. (Germany)*, 40, 23-36 (1976)

Least-square Fitting a Wave-front Distortion Estimate to an Array of Phase-Difference Measurements

D. L. Fried, *J. Opt. Soc. Am.*, 67, 370-375 (1977)

Proposal for Phase Recovery from a Single Intensity Distribution

A. H. Greenaway, *Opt. Lett.*, 1, 10-12 (1977)

Wave-front Reconstruction for Compensated Imaging

R. H. Hudgin, *J. Opt. Soc. Am.*, 67, 375-378 (1977)

A Simple Method of Estimating the RMS Phase Variation Due to Atmospheric Turbulence

R. J. Scaddan, J. C. Dainty, *Opt. Commun.*, 21, 51-54 (1977)

A New Phase Unwrapping Algorithm

J. M. Tribolet, *IEEE Trans. ASSP*, 25, 170-177 (1977)

Phaseless Aperture Synthesis

J. E. Baldwin, P. J. Warner, *M. N. R. A. S.*, 182, 411-422 (1978)

Passive Imaging Through the Turbulent Atmosphere: Fundamental Limits on the Spatial Frequency Resolution of a Rotational Shearing

J. J. Burke, J. B. Breckinridge, *J. Opt. Soc. Am.*, 68, 67-77 (1978)

Proposals for Phase Recovery in High Resolution Techniques

L. Koechlin, *Proc. ESO/CERN Conference, "Optical Telescopes of the Future"*, 475-478 (1978)

On the Problem of Phase from Intensity Measurements

S. R. Robinson, *J. Opt. Soc. Am.*, 68, 87-92 (1978)

Astronomical Speckle Interferometry and Speckle Holography

G. Weigelt, *Proc. ICO-11 Conference, "Astronomical Speckle Interferometry and Speckle Holography"* (1978)

Effets de la Turbulence Atmospherique et Possibilites de Correction en Detection Heterodyne Stellaire Infrarouge

J. P. Cortegianni, J. Gay, Y. Rabbia, *J. Optics (Paris)*, 10, No. 6, 351-353 (1979)

On the Danger of Applying Statistical Reconstruction Methods in the Case of Missing Phase Information

J. C. Dainty, M. A. Fiddy, A. H. Greenaway, *Proc. IAU Colloq. #49, "Image Formation from Coherence Functions in Astronomy"*, 95-101 (1979)

The Nature of Atmospheric Turbulence Effects of Imaging and Pseudo-Imaging Systems, and Its Quantification

D. L. Fried, *Proc. IAU Colloq. #50, "High Angular Resolution Stellar Interferometry"*, Paper 4 (1979)

Analysis of Techniques for Imaging Through the Atmosphere

D. L. Fried, *RADC-TR-78-285* (1979)

Noise in Speckle Interferometry and in Speckle Imagery

D. L. Fried, *Report TR-79-331*, ed. The Optical Sciences Company (1979)

The Phase Problem in Astronomy

A. H. Greenaway, *J. Optics (Paris)*, 10, No. 6, 308-310 (1979)

The Signal-to-noise Ratio in Long Baseline Stellar Interferometry

A. H. Greenaway, *Opt. Acta*, 26, 1147-1171 (1979)

Matrix Formulation of the Reconstruction of Phase Values from Phase Differences

B. R. Hunt, *J. Opt. Soc. Am.*, 69, 393-399 (1979)

The Astronomical Potential of Spatial Interferometry in the Infrared

F. J. Low, *Proc. IAU Colloq. #50, "High Angular Resolution Stellar Interferometry"*, Paper 2 (1979)

Incoherent Infrared Spatial Interferometry

F. J. Low, *Proc. IAU Colloq. #50, "High Angular Resolution Stellar Interferometry"*, Paper 15 (1979)

Rotation-shearing Interferometry

F. Roddier, *Proc. IAU Colloq. #50, "High Angular Resolution Stellar Interferometry"*, Paper 32 (1979)

An Efficient Implementation of the Algorithm "CLEAN"

B. G. Clark, *Astron. Astrophys.*, 89, 377-378 (1980)

IR Interferometry

F. J. Low, *Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s"*, 825-839 (1980)

Twin-image Holography with Spectrally Broad Light

C. Roddier, F. Roddier, F. Martin, A. Baranne, R. Brun, *J. Optics (Paris)*, 11, 149-152 (1980)

The Influence of Turbulence on the Operation of a Stellar Interferometer

A. A. Tokovinin, *Sov. Astron. Lett.*, 6, 386-388 (1980)

Field of View on Actively Controlled Long Baseline Stellar Interferometry

W. Waller, *J. Opt. Soc. Am.*, 70, 1096-1100 (1980)

Infrared Imaging and Interferometry

C. Townes, *Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s"*, 797-824 (1980)

Ambiguity of Phase Retrieval for Functions with Disconnected Support

T. R. Crimmins, J. R. Fienup, *J. Opt. Soc. Am.*, 71, 1026-1028 (1981)

Coherent Versus Incoherent Detection for Interferometry at Infrared Wavelengths

Th. de Graauw, H. van de Stadt, *Proc. ESO Conference, "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths"*, 273-283 (1981)

Application of Phase Unwrapping to Image Restoration

B. T. O'Connor, T. S. Huang, *Computer Graphics and Image Processing*, 15, 25-44 (1981)

Complex Spatial Coherence Function: Its Measurement by Means of Phase Modulated Shearing Interferometer

E. Ribak, S. G. Lipson, *Appl. Opt.*, 20, 1102-1106 (1981)

Rotation Shearing Interferometry: A New Technique for Achieving High Angular Resolution

C. Roddier, F. Roddier, J. Vernin, *Proc. ESO Conference, "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths"*, 165-170 (1981)

Incoherent Holography: A Technique for Achieving High-angular Resolution in Optical Astronomy

F. Roddier, C. Roddier, *Proc. ICO-12 Conference, "Current Trends in Optics"*, 136 (1981)

The Effects of Atmospheric Turbulence in Optical Astronomy

F. Roddier, *Progress in Optics, XIX*, ed. E. Wolf, North Holland, 281-376 (1981)

Atmospheric Limitations to High Angular Resolution Imaging

F. Roddier, *Proc. ESO Conference, "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths"*, 5-23 (1981)

Phase Retrieval Using Two Intensity Measurements in the Complex Plane

J. W. Wood, M. A. Fiddy, R. E. Burge, *Opt. Lett.*, 6, 514-516 (1981)

Phase Retrieval Algorithms: A Comparison

J. R. Fienup, *Appl. Opt.*, 21, 2758-2769 (1982)

Fourier Phase Problems are Uniquely Solvable in More Than One Dimension. II: One-dimensional Considerations

K. L. Garden, R. H. T. Bates, *Optik*, 62, 131-142 (1982)

Fourier Phase Problems are Uniquely Solvable in More Than One Dimension. III: Computational Examples for Two Dimensions

W. R. Fright, R. H. T. Bates, *Optik*, 62, 219-230 (1982)

The Importance of Boundary Conditions in the Phase Retrieval

M. H. Hayes, T. F. Quatieri, *IEEE Trans. ASSP*, 1545-1548 (1982)

Analysis of the Phase Unwrapping Algorithm

K. Itoh, *Appl. Opt.*, 21, 2470-2470 (1982)

High Resolution Imaging from the Ground

N. J. Woolf, *Ann. Rev. Astron. Astrophys.*, 20, 367-398 (1982)

The Solution to the Phase Retrieval Problem Using the Sampling Theorem

H. H. Arsenault, K. Chalasinska-Macukow, *Opt. Commun.*, 47, 380-386 (1983)

Composite Two-dimensional Phase Restoration Procedure

R. H. T. Bates, W. R. Fright, *J. Opt. Soc. Am.*, 73, 358-365 (1983)

Uniqueness of Phase Retrieval for Functions with Sufficiently Disconnected Support

T. R. Crimmins, J. R. Fienup, *J. Opt. Soc. Am.*, 73, 218-221 (1983)

The Phase Retrieval Problem

M. A. Fiddy, *Proc. SPIE*, 413, "Inverse Optics" (1983)

Enforcing Irreducibility for Phase Retrieval in Two Dimensions

M. A. Fiddy, B. J. Brames, J. C. Dainty, *Opt. Lett.*, 8, 96-98 (1983)

Recursive Phase Retrieval Using Boundary Conditions

M. H. Hayes, T. F. Quatieri, *J. Opt. Soc. Am.*, 73, 1427-1433 (1983)

Analysis of the Shift and Add Method for Imaging Through Turbulent Media

B. R. Hunt, W. R. Fright, R. H. T. Bates, *J. Opt. Soc. Am.*, 73, 456-465 (1983)

Phase Estimation Based on the Maximum Likelihood Criterion

K. Itoh, Y. Ohtsuka, *Appl. Opt.*, 22, 3054-3057 (1983)

Photon Noise Limitations in Wave-front Folding Interferometry

K. Itoh, Y. Ohtsuka, *J. Opt. Soc. Am.*, 73, 479-485 (1983)

Improving on Pinholes in Stellar Interferometry

C. E. KenKnight, "Information Processing in Astronomy and Optics", *Proc. AAS/OSA Joint Topical Meeting*, FA12 (1983)

Reconstruction of Stellar Images from Coherence Measurements in the Visible

F. Roddier, *Proc. AAS/OSA Joint Topical Meeting*, "Information Processing in Astronomy and Optics", FA03 (1983)

Phase Averaging of Image Ensembles by Using Cepstral Gradients

H. W. Swan, *J. Opt. Soc. Am.*, 73, 1488-1492 (1983)

Stability of Unique Fourier-Transform Phase Reconstruction

J. L. C. Sanz, T. S. Huang, F. Cukierman, *J. Opt. Soc. Am.*, 73, 1442-1445 (1983)

Phase Restoration is Successful in the Optical as Well as the Computational Laboratory

R. H. T. Bates, W. R. Fright, W. A. Norton, *Proc. URSI/IAU Symp.*, "Indirect Imaging", 119-124 (1984)

Phase Unwrapping Method Along Radial Coordinates for Speckle Image Reconstruction

N. Baba, F. Kawaguchi, T. Ose, S. Isobe, *Opt. Commun.*, 49 (1), 11 (1984)

The Essential Role of Prior Knowledge in Phase Retrieval

J. C. Dainty, M. A. Fiddy, *Opt. Acta*, 31, 325-330 (1984)

Experimental Evidence of the Uniqueness of Phase Retrieval from Intensity Data

J. R. Fienup, *Proc. URSI/IAU Symp.*, "Indirect Imaging", 99-109 (1984)

Phase Retrieval From a Single Intensity Distribution

J. R. Fienup, *Proc. ICO-13 Conference*, "Optics in Modern Science and Technology", 606-609 (1984)

Comparison of Phase Retrieval Algorithms

J. R. Fienup, *Advances in Computer Vision and Image Processing, 1, "Image Reconstruction from Incomplete Observations"*, ed. T. S. Huang, 191-225 (1984)

Phase Estimation with Few Photons

L. N. Mertz, *Appl. Opt.*, 23, 1638-1641 (1984)

Testing for Uniqueness of Phase Recovery in Two Dimensions

M. Nieto-Vesperinas, J. C. Dainty, *Opt. Commun.*, 52, 94-98 (1984)

Long-baseline Michelson Interferometry with Large Ground-based Telescopes Operating at Optical Wavelengths. I - General Formalism.

F. Roddier, P. Lena, *J. Optics (Paris)*, 15, 171-182 (1984)

Long-baseline Michelson Interferometry with Large Ground-based Telescopes Operating at Optical Wavelengths. II - Interferometry at Infrared Wavelengths

F. Roddier, P. Lena, *J. Optics (Paris)*, 15, 363-374 (1984)

Indirect Imaging in Optical Astronomy

F. Roddier, *Proc. Workshop, "Unconventional Imagery"*, 23 (1984)

Uniqueness Condition for the Phase Problem in One Dimension

R. J. Sault, *Opt. Lett.*, 9, 325-326 (1984)

Phase Unwrapping Using the Complex Zeros of a Transmitted Function and the Presence of Ambiguities in Two Dimensions

M. S. Scivier, T. J. Hall, M. A. Fiddy, *Opt. Acta*, 31, 619-623 (1984)

Speckle Spectroscopy

W. Stork, G. Weigelt, *Proc. ICO-13 Conference, "Optics in Modern Science and Technology"*, 642 (1984)

Spatial Interferometry in the Mid-infrared Region

C. H. Townes, *J. Astrophys. Astr.*, 5, 111-130 (1984)

Uniqueness and Other Aspects of the Optical Phase Problem

B. J. Brames, *PhD Thesis, University of Rochester* (1985)

Fast Iterative Solution to Exact Equations for the Two-dimensional Phase-retrieval Problem

K. Chalasinska-Macukow, H. H. Arsenault, *J. Opt. Soc. Am. A*, 2, 46-50 (1985)

Pupil Plane and Image Plane Interferometry at Optical Wavelengths: Visibility and Phase Analysis

A. Chelli, J.-M. Mariotti, *Proc. SPIE*, 556, 290-296 (1985)

Solution of the Two Dimensional Phase Retrieval Problem

H. V. Deighton, M. S. Scivier, M. A. Fiddy, *Opt. Lett.*, 10, 250-251 (1985)

Aperture Synthesis With or Without Phase Information for Kilometric Arrays Interpolation Algorithms for Stabilized Image Reconstruction

A. Lannes, *Proc. ESA Colloq., "Kilometric Optical Arrays in Space"*, 165-170 (1985)

IR Background Speckle Noise Induced by Adaptive Optics in Astronomical Telescopes

F. Roddier, P. Eisenhardt, *Proc. SPIE*, 556, 248-254 (1985)

Phase Ambiguities and the Zeros of Multidimensional Band-limited Functions

M. S. Scivier, M. A. Fiddy, *J. Opt. Soc. Am.*, A 2, 693-697 (1985)

Chromatic Position Difference: A Technique for Studying Double Stars

L. Y. Sorokin, A. A. Tokovinin, *Sov. Astron. Lett.*, 11, 226-232 (1985)

Improving Initial Phase Estimates for Phase Retrieval Algorithms

M. C. Won, D. Mnyama, R. H. T. Bates, *Opt. Acta*, 32, 377-396 (1985)

Closure Phase in High-resolution Optical Imaging

J. E. Baldwin, C. A. Haniff, C. D. Mackay, J. P. Warner, *Nature*, 370, 595-597 (1986)

The Status of Practical Fourier Phase Retrieval

R. H. T. Bates, D. Mnyama, *Advances in Electronics and Electron Physics*, 67, ed. P. W. Hawkes (Academic Press), 1-64 (1986)

Unique Phase Retrieval with Explicit Support Information

B. J. Brames, *Opt. Lett.*, 11, 61-63 (1986)

Sufficient Support Information to Ensure a Unique Solution to the Phase Problem

B. J. Brames, *Proc. OSA Topical Meeting, "Signal Recovery & Synthesis II"*, 68-70 (1986)

Exploring the Irreducible Support

B. J. Brames, *Proc. OSA Topical Meeting, "Signal Recovery & Synthesis II"*, 71-74 (1986)

Error Lower Bound for Phase Retrieval

J. N. Cederquist, *Proc. OSA Topical Meeting, "Signal Recovery & Synthesis II"*, 64-67 (1986)

Visibility and Phase Analysis for Image and Pupil Plane Interferometry at Optical Wavelengths

A. Chelli, J.-M. Mariotti, *Astron. Astrophys.*, 157, 372-382 (1986)

Comparison Between Image Plane Phase Reconstruction Methods in Optical Interferometry

A. Chelli, *Proc UAI Conf., "V Reunion Regional Latinoamericana de Astronomia de la UAI"* (1986)

Phase Retrieval for Discrete Functions with Support Constraints

T. R. Crimmins, *Proc. OSA Topical Meeting, "Signal Recovery & Synthesis II"*, 75-78 (1986)

Phase Retrieval in Imaging

H. A. Ferwerda, *Proc. OSA Topical Meeting, "Signal Recovery & Synthesis II"*, 36-39 (1986)

Phase Retrieval: Algorithm Improvements, Uniqueness, and Complex Objects

J. R. Fienup, *Proc. OSA Topical Meeting, "Signal Recovery & Synthesis II"*, 40-43 (1986)

Phase Retrieval Stagnation Problems and Solutions

J. R. Fienup, C. C. Wackerman, *J. Opt. Soc. Am. A*, 3, 1897-1907 (1986)

Phase Retrieval Using Boundary Conditions

J. R. Fienup, *J. Opt. Soc. Am. A*, 3, 284-288 (1986)

Aperture Distribution Phase from Single Radiation Pattern Measurement via Gerchberg-Saxton Algorithm

P. H. Gardenier, C. A. Lim, D. G. H. Tan, R. H. T. Bates, *Electronics Lett.*, 22, 113-115 (1986)

Fourier-transform Spectral Imaging: Retrieval of Source Information from Three-dimensional Spatial Coherence

K. Itoh, Y. Ohtsuka, *J. Opt. Soc. Am. A*, 3, 94-100 (1986)

Etude des Anisotropies des Fonctions de Transfert Optiques de Quelques Telescopes

S. Kadiri, R. Petrov, F. Martin, G. Ricort, J. Borgnino, C. Aime, *J. Optics (Paris)*, 17, 67-76 (1986)

Phase Recovery for Two-dimensional Digital Objects by Polynomial Factorisation

M. Nieto-Vesperinas, J. C. Dainty, *Opt. Commun.*, 58, 83-88 (1986)

Maximum Entropy Image Restoration in Astronomy

R. Narayan, R. Nityananda, *Ann. Rev. Astron. Astrophys.*, 24, 127-170 (1986)

Astronomical Images by Filtered Weighted Shift-and-Add Techniques

E. Ribak, *J. Opt. Soc. Am. A*, 3, 2069-2076 (1986)

NOAO Infrared Adaptive Optics Program II: Modeling Atmospheric Effects in Adaptive Optics Systems for Astronomical Telescopes

F. Roddier, C. Roddier, *Proc. SPIE*, 628, 298-304 (1986)

Pupil Plane Versus Image Plane in Michelson Stellar Interferometry

F. Roddier, *J. Opt. Soc. Am. A*, 3, 2160-2166 (1986)

Phase Closure with Rotational Shear Interferometers

F. Roddier, C. Roddier, *Opt. Commun.*, 60, 350-352 (1986)

Pupil Plane Versus Image Plane in Michelson Stellar Interferometry

F. Roddier, *Proc. OSA Topical Meeting, "Quantum-limited Imaging and Image Processing"*, 28-31 (1986)

Automatic Deconvolution and Phase Retrieval

R. H. T. Bates, R. G. Lane, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 71-73 (1987)

Automatic Deconvolution and Phase Retrieval

R. H. T. Bates, R. G. Lane, *Proc. SPIE*, 828, 158-164 (1987)

Comparison Between Image Plane Phase Reconstruction Methods in Optical Interferometry

A. Chelli, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 75-78 (1987)

Image Selection and Binning for Improved Atmospheric Calibration of Infrared Speckle Data

J. C. Christou, D. W. McCarthy, M. L. Cobb, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 17-20 (1987)

Image Selection and Binning for Improved Atmospheric Calibration of Infrared Speckle Data

J. C. Christou, D. W. McCarthy, M. L. Cobb, *Astron. J.*, 94, 516-522 (1987)

Object Reconstruction from Photon-limited Centroided Data of Randomly Translating Images
L. C. de Freitas, M. Northcott, B. J. Brames, J. C. Dainty, *Proc. SPIE*, 828, 62-72 (1987)

Phase Retrieval from Fourier Intensity Data
J. R. Fienup, *Proc. SPIE*, 828, 13-18 (1987)

Post-detection Wavefront Distortion Compensation
D. L. Fried, *Proc. SPIE*, 828, 127-133 (1987)

A Cellular Automata Method for Phase Unwrapping
D. C. Ghiglia, G. A. Mastin, *J. Opt. Soc. Am. A*, 4, 267-280 (1987)

Comparison of Phase Retrieval Filter Methods
P. W. Kiedron, *Proc. SPIE*, 828, 165-170 (1987)

On the Concept of Resolution Ellipse in Aperture Synthesis Matched Deconvolution with Error Analysis
A. Lannes, S. Roques, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 45-48 (1987)

Stabilized Reconstruction in Signal and Image Processing. II. Iterative Reconstruction with and without Constraint-interactive Implementation
A. Lannes, H. J. Casanove, S. Rogers, *J. Mod. Opt.*, 34, 321 (1987)

Direct Phase Retrieval
R. G. Lane, W. R. Fright, R. H. T. Bates, *Trans. IEEE, ASSP-35*, 520-526 (1987)

Phase Retrieval with the Maximum Entropy Method
R. Narayan, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 183-186 (1987)

Effects of Tapered Illumination and Fourier Intensity Errors on Phase Retrieval
R. G. Paxman, J. R. Fienup, J. T. Clinthorne, *Proc. SPIE*, 828, 184-189 (1987)

Filtered, Weighted Shift-and-Add: Theory and Practice
E. Ribak, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 55-58 (1987)

Phase Relations in a Rotational Shear Interferogram
E. Ribak, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 215-218 (1987)

Phase Closure with Rotational Shear Interferometers
F. Roddier, C. Roddier, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 79-82 (1987)

On the Saturation of the Refractive Index Structure Function. I. Enhanced Hopes for Long Baseline Optical Interferometry
P. Venkatakrishnan, S. Chatterjee, *M. N. R. A. S.*, 224, 265-269 (1987)

Analytical Expression for the MTF of an Array of Circular Unaberrated Phased Aperture

R. Kwong, *J. Optics*, 27, 2055-2060 (1988)

Synthetic-aperture Imaging with the European Very Large Telescopes

F. Merkle, *J. Opt. Soc. Am. A.*, 5, 904-913 (1988)

Phase Reconstruction in Optical Interferometry

D. Morancais, P. Nisenson, *Optics Commun.*, 67, 39-44 (1988)

Diffraction-limited Imaging with Ground-based Optical Telescopes

A. C. S. Readhead, T. S. Nakajima, T. J. Pearson, G. Neugebauer, J. B. Oke, W. L. W. Sargent, *Astron. J.*, 95, 1278-1296 (1988)

Microarcsecond Optical Astrometry: An Instrument and Its Astrophysical Applications

R. D. Reasenberg, R. W. Babcock, J. F. Chandler, M. V. Gorenstein, J. P. Huchra, M. R. Pearlman, J. I. Shapiro, R. S. Taylor, P. Bender, A. Buffington, B. Carney, J. A. Hughes, K. J. Johnston, B. F. Jones, L. E. Matson, *Astron. J.*, 96, 1731-1745 (1988)

Signal-to-noise Ratio Limitations in White Light Holography

E. Ribak, C. Roddier, F. Roddier, J. B. Breckinridge, *Appl. Opt.*, 27, 1183-1186 (1988)

Phases Variances from Triple Correlation Analysis

F. Roddier, J. C. Christou, *Opt. Commun.*, 65 (2), 115-120 (1988)

Two-point Resolution Criterion for Multi-aperture Optical Telescopes

S. M. Watson, J. P. Mills, S. K. Rogers, *J. Opt. Soc. Am. A.*, 5, 893-903 (1988)

Continuously Movable Telescopes for Optical Interferometry

M. Vivekanand, D. Morris, D. Downes, *Astron. Astrophys.*, 203, 195-202 (1988)

The two-color Method for Optical Astrometry: Theory and Preliminary Measurements with the Mark III Stellar Interferometer

M. Colavita, M. Shao, D. H. Staelin, *Appl. Opt.*, in press

Phase Closure Imaging in Optical Aperture Synthesis

P. Cruzalebes, G. Schumacher, J. -L. Starck, *Proc. S.P.I.E. No. 1351*, in press (1990)

Self-calibration with Rotational Shearing Interferometry

C. A. Roddier, *Proc. S.P.I.E. No. 1351*, in press (1990)

Maximum Entropy Imaging of Polarization in Very Long Baseline Interferometry

M. A. Holdaway, J. F. C. Wardle, *Proc. S.P.I.E. No. 1351*, in press (1990)

Theoretical Sensitivity Limits in Optical Interferometry

S. Prasad, *Proc. S.P.I.E. No. 1351*, in press (1990)

5. IMAGE RECONSTRUCTION ALGORITHMS:

Image Restoration Techniques Applied to Astronomical Photography

B. L. McGlamery, *NASA Tech. Rep. SP-256* (1971)

The Stellar Interferometry of a Star Cluster with a Prominent Variable

G. L. Rogers, *Opt. Comm.*, 30, 1-4 (1979)

Optical Processing of Statistical Data

H. Bohm, A. W. Lohmann, G. P. Weigelt, *Proc. SPIE*, 232, 191-196 (1980)

Using Small Aperture Interferometry to Detect Planets in Nearby Binary Star Systems

D. G. Currie, H. A. McAlister, T. J. Schneeberger, S. P. Worden, *NASA Conf. Publication 2124*, Reasenberg (1980)

Mapping Radio Sources with Uncalibrated Visibility Data

A. C. S. Readhead, *Nature*, 285, 137-140 (1980)

Image Reconstruction for Stellar Interferometry

J. R. Fienup, *Proc. ICO-12 Conf.*, "Current Trends in Optics", 95-102 (1981)

Optical Processing of Statistical Data

H. Bohm, A. W. Lohmann, G. P. Weigelt, *Proc. SPIE*, 232, 191-196 (1980)

The Phase Retrieval Problem: A Solution Based on Zero Location by Exponential Apodization

J. G. Walker, *Opt. Acta*, 28, 735-738 (1981)

A Computer Simulation of Faint Object Image Formation by a Rotating Aperture

M. G. Lacasse, W. A. Traub, *Bull. Am. Ast. Soc.*, 16, 810-817 (1984)

Relaxing the Isoplanatism Assumption in Self-calibration: Applications to Low-frequency Radio Interferometry

F. R. Schwab, *A. J.*, 89, 1076-1081 (1984)

COSMIC Image Reconstruction

M. G. Lacasse, W. A. Traub, *Proc. ESA Colloq.*, "Kilometric Optical Arrays in Space" SP-226, 121-128 (1985)

Numerical Experiments in Image Reconstruction

M. Faucherre, R. V. Stachnik, S. Aram, *Proc. ESA Colloq.*, "Kilometric Optical Arrays in Space", 121-128 (1985)

Design and Execution of a Phase Retrieval Demonstration Experiment

J. N. Cederquist, J. R. Fienup, J. C. Marron, R. G. Paxman, *Proc. SPIE*, 828, 190-194 (1987)

Bi-spectrum Imaging in Radio Interferometry

T. J. Cornwell, *Proc. of the 1st ESO/NOAO Workshop*, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 161-164 (1987)

Twenty Years of Image Processing at Canterbury

R. H. T. Bates, *Trans. Inst. Prof. Engrs. N. Z.*, 14 (EMCh), 9-13 (1987)

On the Three M's of Image Enhancement: MAP, ME, and MW

B. R. Frieden, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 191-196 (1987)

Stability Conditions and Regularization Procedures

A. Lannes, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 187-190 (1987)

Image Deconvolution from Wavefront Sensing: Atmospheric Turbulence Simulation Cell Results

J. Primot, G. Rousset, J. C. Fontanella, *Proc. ESO Conf. and Workshop #30, Very Large Telescopes and Their Instrumentation, 1*, 683 (1988)

Experimental Validation of Extended Image Reconstruction Using the Bispectrum

T. W. Lawrence, J. P. Fitch, D. M. Goodman, E. M. Johansson, N. A. Massie, R. J. Sherwood, *Proc. S.P.I.E.*, 1237, in press (1990)

Image Reconstruction from Interferograms of Laser-Illuminated Complex Targets

M. Elbaum, J. Nowakowski, M. Wlodawski, *Proc. S.P.I.E. No. 1351, in press (1990)*

Reduced Computation Algorithm for Phase Retrieval

P. D. Henshaw, N. R. Guivens, Jr., *Proc. S.P.I.E. No. 1351, in press (1990)*

Partially Compensated Knox-Thompson Speckle Imaging

R. Holmes, S. M. Ebstein, *Proc. S.P.I.E.*, 1237, in press (1990)

C. EXPERIMENTAL TECHNIQUES (chronological order)

- 1. Michelson Interferometry*
 - 2. Long Baseline Interferometry*
 - 3. Speckle Interferometry*
 - 4. Coherent Telescope Arrays*
 - 5. Infrared Experiments*
 - 6. Pupil Plane Interferometry*
 - 7. Atmosphere-Related Experiments*
 - 8. Adaptive Optics*
 - 9. Instrumentation, Techniques and Facilities*
-

1. MICHELSON INTERFEROMETRY:

Rapport sur le prix Bordin

C. Fizeau, *R. Acad. Sc. (Paris)*, 66, 932 (1868)

A Variant of Michelson's Stellar Interferometer

E. S. Kulagin, *Opt. Spectrosc.*, 23, 459-460 (1967)

A Superposed-ray Interferometer

E. S. Kulagin, *Sov. Astron.*, 13, 1023-1028 (1970)

An Automatic Interferometer for Double Star Observations

W. C. Wickes, R. H. Dicke, *Astron J.*, 78, 757-768 (1973)

Achromatic Double Star Interferometry

W. C. Wickes, R. H. Dicke, *A. J.*, 79, 1433-1444 (1974)

On the Fringe Visibility in a Michelson Interferometer

C. Roddier, F. Roddier, *J. Opt. Soc. Am.*, 66, 580-584 (1976)

Design and Operation of an Infrared Spatial Interferometer

D. W. McCarthy, F. J. Low, R. R. Howell, *Opt. Engr.*, 16, 569-574 (1977)

The Influence of Scanning Rate in Sequential Analysis of Fringes Produced by a Michelson Interferometer

C. Aime, *Opt. Comm.*, 26, 139-142 (1978)

Active Control for Michelson Stellar Interferometers

J. W. Hardy, E. P. Wallner, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"*, Paper 10 (1979)

Infrared Spatial Interferometry: Present Status and Future Plans

D. W. McCarthy, F. J. Low, R. Howell, *Proc. SPIE*, 172, 140-148 (1979)

A Phase Grating Stellar Interferometer

W. C. Wickes, *Sov. Astron. Lett.*, 5, 229-231 (1979)

A Phase Grating Stellar Interferometer

A. A. Tokovinin, *Sov. Astron. Lett.*, 5, 229-231 (1979)

Terrestrial Optical Aperture Synthesis Technique (TOAST)

A. H. Greenaway, *Opt. Comm.*, 58, 149-154 (1986)

Probability Imaging of Double and Multiple Stars

C. Aime, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 63-66 (1987)

TOAST, A Terrestrial Optical Aperture Synthesis Technique

A. H. Greenaway, D. P. Cheese, J. D. Bregman, J. E. Noordam, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 153-156 (1987)

Kalman Filter Fringe Tracking in an Optical Interferometer

R. D. Reasenberg, *Proc. S.P.I.E.*, 1237, in press (1990)

Astronomy with an Optical Interferometer

J. A. Hughes, *Proc. S.P.I.E.*, 1237, in press (1990)

Michelson- Versus Fizeau-Type Beam Combination: Is There A Difference?

M. Faucherre, F. Merkle, *Proc. S.P.I.E.*, 1237, in press (1990)

2. LONG BASELINE INTERFEROMETRY:

The Fifty-foot Interferometer Telescope

F. G. Pease, *Armour Engineer*, 125-130 (1925)

The New Fifty-foot Stellar Interferometer

F. G. Pease, *Sci. Am.*, 143, 290-294 (1930)

Interferometry of the Intensity Fluctuations in Light. II. An Experimental Test of the Theory for Partially Coherent Light

R. Hanbury-Brown, R. Q. Twiss, *Proc. Roy. Soc. A*, 243, 291-319 (1957-1958)

Interferometry of the Intensity Fluctuations in Light. IV. A Test of an Intensity Interferometer on Sirius

R. Hanbury-Brown, R. Q. Twiss, *Proc. Roy. Soc. A*, 248, 222-237 (1958)

Measurement of Stellar Diameters

R. H. Miller, *Science*, 153, 581-587 (1966)

The Stellar Interferometer at Narrabri Observatory-I. A Description of the Instrument and the Observational Procedure

R. Hanbury-Brown, J. Davis, L. R. Allen, *M. N. R. A. S.*, 137, 375-392 (1967)

The Stellar Interferometer at Narrabri Observatory-II. The Angular Diameters of 15 Stars

R. Hanbury-Brown, J. Davis, L. R. Allen, J. M. Rome, *M. N. R. A. S.*, 137, 393-417 (1967)

The Effects of Cerenkov Light Pulses on a Stellar Intensity Interferometer

R. Hanbury-Brown, J. Davis, L. R. Allen, *M. N. R. A. S.*, 146, 399-409 (1969)

An Experiment with an Optical Heterodyne Interferometer

H. van de Stadt, *Opt. Comm.*, 2, 153-156 (1970)

A 100 Meter Michelson Interferometer

R. H. Miller, *Aura Engr. Tech. Report*, #40, KPNO (1971)

An Infrared Stellar Interferometer Using Heterodyne Detection

M. A. Johnson, *Proc. OSA Ann. Meeting*, 1350 (1972)

Infrared Interferometry

J. Gay, A. Journet, *Nature*, 241, 32-33 (1973)

Near Heterodyne Interferometer for the Measurement of Stellar Diameters

H. van de Stadt, *Proc. ICO-9 Conf.*, Space Optics (1973)

The Effects of Limb Darkening on Measurements of Angular Size with an Intensity Interferometer

R. Hanbury-Brown, J. Davis, R. J. W. Lake, R. J. Thompson, *M. N. R. A. S.*, 167, 475-484 (1974)

The Intensity Interferometer

R. Hanbury-Brown, ed. Taylor and Francis (London) (1974)

Ten Micron Heterodyne Stellar Interferometer

M. A. Johnson, A. L. Betz, C. H. Townes, *Phys. Rev. Lett.*, 33, 1617-1620 (1974)

An Infrared Astrometric Interferometer

J. Gay, A. Journet, *Space Sci. Rev.*, 17, 687-688 (1975)

A Proposed Successor to the Narrabri Stellar Intensity Interferometer

J. Davis, *Multicolor Photometry and the Theoretical HR Diagram*, ed. A. G. D. Philip & D. S. Hayes, Dudley Observatory Report No. 9, 199-214 (1975)

On the Fringe Visibility in a Michelson Interferometer

C. Roddier, F. Roddier, *J. Opt. Soc. Am.*, 66, 580-584 (1976)

The Development, Fabrication and Astronomical Application of a Wide-band Long Baseline Optical Amplitude Interferometer

D. G. Currie, *Tech. Rep. 77-075*, University of Maryland (1977)

Long-Baseline Optical Interferometry for Astronomy

M. Shao, D. H. Staelin, *J. Opt. Soc. Am.*, 67, 81-86 (1977)

Infrared Heterodyne Interferometry

C. H. Townes, E. C. Sutton, J. W. V. Storey, *Proc. ESO/CERN Conf., "Optical Telescopes of the Future"*, 409-425 (1978)

On Long-Baseline Amplitude Interferometers in Astronomical Applications

A. H. Greenaway, J. C. Dainty, *Opt. Acta*, 25, 181-189 (1978)

Intensity Interferometry versus Michelson Interferometry

R. Hanbury-Brown, *Proc. ESO/CERN Conf., "Optical Telescopes of the Future"*, 391-407 (1978)

On Astrometric Applications of the Very Long Baseline Amplitude Interferometer

D. G. Currie, *Proc. IAU Coll. #50*, Paper 22 (1979)

An 11 Metre Michelson Stellar Interferometer

J. Davis, *New Zealand J. Science*, 22, 451-455 (1979)

A Prototype 11 Meter Modern Michelson Stellar Interferometer

J. Davis, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"*, Paper 14 (1979)

Experience Acquisée en Interferométrie Optique à Deux Télescopes

D. Bonneau, *J. Optics (Paris)*, 10, No. 6, 311-316 (1979)

Speckle and Intensity Interferometry. Applications to Astronomy

F. Roddier, *Proc. Winter-School Les Houches* (1979)

Effects of Ground Motions on Amplitude Interferometry

P. L. Bender, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"*, Paper 5 (1979)

L'interferometre Infrarouge du Cerga

P. Assus, H. Choplin, J. P. Corteggiani, E. Cuot, J. Gay, A. Journet, G. Merlin, Y. Rabbia, *J. Optics (Paris)*, 10, No. 6, 345-350 (1979)

Results and Future Uses of Heterodyne Spatial Interferometry at 11 Microns

E. C. Sutton, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"*, Paper 16 (1979)

Amplitude Interferometry at CERGA

L. Koechlin, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"*, Paper 9 (1979)

The Prototype Very Long Baseline Amplitude Interferometer

K. M. Liewer, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"*, Paper 8 (1979)

The Monteporzio Two Meter Amplitude Interferometer

W. J. Tango, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"*, Paper 13 (1979)

Effects of Ground Motions on Amplitude Interferometry

P. L. Bender, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"*, Paper 5 (1979)

A Review of the Achievements and Potential of Intensity Interferometry

R. Hanbury-Brown, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"*, Paper 11 (1979)

Optical Interferometers in Astronomy

M. Shao, *Proc. IAU Coll. #48, "Modern Astrometry"*, 313-324 (1979)

Differential Detection of Coherence Functions and Its Applications

T. Sato, *J. Opt. Soc. Am.*, 70, 97-103 (1980)

First Fringe Measurements with a Phase-tracking Stellar Interferometer

M. Shao, D. H. Staelin, *Appl. Opt.*, 19, 1519-1522 (1980)

Preliminary Results of Direct Michelson Interferometry at 2.2 Microns with Two Telescopes on a Base Line of 12 m

G. Di Benedetto, G. Conti, O. Citterio, E. Mattaini, L. Koechlin, *Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s"*, 1006-1012 (1980)

Two-Telescope Michelson Stellar Interferometry at 2.2 Microns

O. Citterio, G. Conti, G. P. Di Benedetto, *Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths"*, 237-245 (1981)

Interferometric Connection of the Canada-France-Hawaii 3.6 Metre Telescope and the United Kingdom 3.8 Metre Telescope on Mauna Kea

W. A. Grundmann, G. J. Odgers, E. H. Richardson, *Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths"*, 253-255 (1981)

Multiple Telescope Infrared Interferometry

C. H. Townes, E. C. Sutton, *Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths"*, 199-223 (1981)

Possible Applications of Long-baseline Intensity Interferometry

D. Dravins, *Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths"*, 295-304 (1981)

Performance of Present and Next Generation Stellar Interferometers

L. Koechlin, F. Vakili, *Proc. Sac Peak Conf., "Solar Instrumentation: What's Next?"*, 236-239 (1981)

Status of the M. I. T. Stellar Interferometer Project

M. Shao, *Proc. Sac Peak Conf., "Solar Instrumentation: What's Next?"*, 240-242 (1981)

Interferometric Alignment of Optical Surfaces and Rotational Axes

J. Davis, W. J. Tango, R. J. Thompson, *Appl. Opt.*, 21, No. 16, 2867-2868 (1982)

Long Baseline Interferometry and Binary Stars

J. Davis, *Proc. IAU Coll. #62, "Current Techniques in Double and Multiple Star Research"*, Lowell Obs. Bull., No. 167, 191-201 (1983)

The Development of Michelson and Intensity Long Baseline Interferometry

R. Hanbury-Brown, *Proc. NRAO Workshop, "Serendipitous Discoveries in Radio Astronomy"*, 133-145 (1983)

Double Star Measurement with the Cerga Two Telescope Interferometer

L. Koechlin, F. Vakili, D. Bonneau, *Proc. IAU Coll. #62, "Current Techniques in Double and Multiple Star Research"*, Lowell Obs. Bull. No. 167, 156-157 (1983)

Petit Interferometre Stellaire du CERGA: Resultats et Projets

L. Koechlin, F. Vakili, M. Faucherre, G. P. Di Benedetto, J. C. Conti, *Proc. CNES Conf., Techniques d'Interferometrie a Tres Grande Base* (1983)

A 50-Meter Michelson Stellar Interferometer on a Space Platform

M. Faucherre, M. G. Lacasse, P. Nisenson, R. D. Reasenberg, M. Shao, R. V. Stachnik, W. A. Traub, *Bull. Am. Ast. Soc.*, 16, 793-796 (1984)

Dynamical Astronomy via Optical Astrometric Interferometry in Space

R. D. Reasenberg, J. F. Chandler, *Bull. Am. Ast. Soc.*, 16, 723 (1984)

Long Baseline Optical Interferometry

J. Davis, *Proc. URSI/IAU Symp., "Indirect Imaging"*, 125-141 (1984)

Measuring the Sizes of Stars

R. Hanbury-Brown, *J. Astrophys. Astr.*, 5 (1), 19-30 (1984)

Very Long Baseline Interferometry Techniques

L. Koechlin, F. Vakili, M. Faucherre, G. P. Di Benedetto, J. C. Conti, *Proc. CNES Conf.*, 311 (1984)

Progress of the Large Interferometer at CERGA

A. Labeyrie, G. Schumacher, C. Thom, M. Dugue, F. Foy, R. Foy, P. Cormier, F. Vakili, *Proc. IAU Coll. #79, "Very Large Telescopes, Their Instrumentation and Programs"*, 267-278 (1984)

Pathlength Stability of Synthetic Aperture Telescopes: The Case of the 25cm CERGA Interferometer

J. -M. Mariotti, G. P. Di Benedetto, *Proc. IAU Coll. #79, "Very Large Telescopes, Their Instrumentation and Programs"*, 257-265 (1984)

Measuring Stars with High Angular Resolution: Current Status and Future Prospects

J. Davis, *Proc. IAU Symp. #111, "Calibration of Fundamental Stellar Quantities"*, 193-208 (1985)

Measuring Stars with High Angular Resolution: Results from Narrabri Observatory

R. Hanbury-Brown, *Proc. IAU Symp. #111, "Calibration of Fundamental Stellar Quantities"*, 185-192 (1985)

Fringe Drift Compensation in Computer Memory

L. Koechlin, *Proc. ESA Colloq., "Kilometric Optical Arrays in Space"*, 99-106 (1985)

High Angular Resolution Measurements of Stellar Properties

H. A. McAlister, *Ann. Rev. Astron. Astrophys.*, 23, 59-88 (1985)

DUO: A Far Infrared Heterodyne Concept for Space Interferometry

J. Gay, Y. Rabbia, *Proc. ESA Coll. SP-226, "Kilometric Optical Arrays in Space"*, 171-176 (1985)

Prospects for Planetary Detection Using POINTS

R. W. Babcock, J. F. Chandler, R. D. Reasenberg, *BAAS*, 17, 705 (1985)

A New Very High Angular Resolution Stellar Interferometer

J. Davis, W. J. Tango, *Proc. Astron. Soc. Australia*, 6 (1), 38-43 (1985)

Long Baseline Michelson Stellar Interferometry in the Near Infrared

G. P. Di Benedetto, *Astron. Astrophys.*, 148, 169-175 (1985)

SAMSI: An Orbiting Spatial Interferometer for Micro-Arcsecond Astronomical Observations

R. V. Stachnik, D. Y. Gezari, *Proc. ESA Coll. SP-226, "Kilometric Optical Arrays in Space"*, 35-42 (1985)

The Sydney University 11.4 Metre Stellar Interferometer

J. Davis, W. J. Tango, *Proc. Astron. Soc. Australia*, 6 (1), 34-38 (1985)

A High Precision Telescope Pointing System

W. C. Danchi, A. Arthur, R. Fulton, M. Peck, B. Sadoulet, E. C. Sutton, C. H. Townes, R. H. Weitzman, *Proc. SPIE*, 628, 422-428 (1986)

Long Baseline Spatial Interferometer for the IR

C. H. Townes, W. C. Danchi, B. Sadoulet, E. C. Sutton, *Proc. SPIE*, 628, 281-284 (1986)

Interferometrie Stellaire dans l'Espace: Detection des Franges

L. Koechlin, *J. Optics (Paris)*, 16, 6 (1986)

Fringes Obtained with the Large Boules Interferometer at Cerga

A. Labeyrie, G. Schumacher, M. Dugue, C. Thom, P. Bourlon, F. Foy, D. Bonneau, R. Foy, *Astron. Astrophys.*, 162, 359-364 (1986)

Solar-System Tests in Transition

R. D. Reasenberg, *Proc. Course, "International School of Cosmology & Gravitation : Topological Properties and Global Structure of Space-Time"*, 177-198 (1986)

Microarcsecond Astrometric Interferometry

R. D. Reasenberg, *Proc. IAU Symposium #109, "Astrometric Techniques"*, 321-330 (1986)

POINTS: A Small Astrometric Interferometer

R. D. Reasenberg, *Proc. SPIE*, 571, 245-251 (1986)

The Mark III Astrometric Interferometer

M. Shao, M. Colavita, D. H. Staelin, *Proc. SPIE*, 628, 250-254 (1986)

Present Status and Future Plans for the Two-Color Astrometric Interferometer Project

M. Shao, M. Colavita, D. H. Staelin, R. Simon, K. Johnston, *Proc. IAU Symposium #109, "Astrometric Techniques"*, 321-330 (1986)

Radio Astronomy Precedent for Optical Interferometer Imaging

G. W. Swenson, *J. Opt. Soc. Am. A*, 3, 1311-1319 (1986)

On Prospects for an Extremely Large Optical/Infrared Array Telescope

G. W. Swenson, C. S. Gardner, R. H. T. Bates, *Proc. SPIE*, 628, 277-280 (1986)

Optical Synthesis Telescopes

G. W. Swenson, C. S. Gardner, R. H. T. Bates, *Proc. SPIE*, 643, 129-140 (1986)

Recent Results with I2T in the Visible

F. Vakili, Y. Rabbia, L. Koechlin, *Proc. IAU Com. #9* (1986)

Combining Beams from Separated Telescopes

W. A. Traub, *Appl. Opt.* 25, 528-532 (1986)

A High Precision Telescope Pointing System

W. C. Danchi, A. Arthur, R. Fulton, M. Peck, B. Sadoulet, E. C. Sutton, C. H. Townes, R. H. Weitzman, *Proc. SPIE*, 628, 422-428 (1986)

The Multi-spectral Fringe Detector for the Mk III Astrometric Interferometer

M. Colavita, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 125-128 (1987)

Atmospheric Phase Measurements with the Mk II and Mk III Interferometers at Mt. Wilson

M. Colavita, M. Shao, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 205-208 (1987)

Performances of an Actively Stabilized Interferometer (ASSI): Faint Magnitudes, Low Fringe Contrast Measurements and Operationality

L. Dame, M. Faucherre, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 205-216 (1987)

Active Stabilization in Stellar Interferometry (ASSI): State of the Art at Cerga/I2T

L. Dame, M. Faucherre, G. Bourdet, Y. Rabbia, F. Vakili, G. Schumacher, Ph. Boutry, M. Decaudin, D. Dube, G. Jegoudez, H. Lagardere, J. -P. Maillard, B. Moreau, G. Terrier, *Proc. ESA Workshop, "Optical Interferometry in Space"* (1987)

A Test-bed for Space Interferometry: SPI

M. Faucherre, L. Dame, R. V. Stachnik, W. A. Traub, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 197-204 (1987)

SAMSI: A Spacecraft Array for Michelson Spatial Interferometry

R. V. Stachnik, M. Faucherre, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 61-62 (1987)

Binary Star Explorer

W. A. Traub, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 67-68 (1987)

The Sydney University Stellar Interferometry Programme: A Progress Report

J. Davis, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 121-124 (1987)

The CERGA Small Interferometer

L. Koechlin, F. Vakili, Y. Rabbia, G. P. Di Benedetto, G. C. Conti, C. Thom, P. Granes, P. Nisenson, C. Papaliolios, M. Lacasse, P. Cruzalebes, G. Schumacher, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 109-114 (1987)

CERGA High Angular Resolution Optical Network

G. Schumacher, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 139-144 (1987)

Status of the Mark III Interferometer

M. Shao, M. Colavita, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 115-120 (1987)

Practical Limits of Ground-based Optical Interferometry and Its Impact on Space Interferometry

M. Shao, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 145-150 (1987)

Application of Interferometry to Optical Astrometry

M. Shao, M. Colavita, D. H. Staelin, K. J. Johnston, R. S. Simon, J. A. Hughes, J. L. Hershey, *A. J.*, 93, 1280-1286 (1987)

Proposed Studies of a 30-Meter Imaging Interferometer Concept

R. T. Stebbins, P. L. Bender, J. E. Faller, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 85-92 (1987)

Optical Interferometer Between the JNLT and WMKT on Mauna Kea

S. Isobe, *Proc. ESO Conf. and Workshop #30, Very Large Telescopes and Their Instrumentation*, 1, 781 (1988)

The Mark III Stellar Interferometer

M. Shao, M. M. Colavita, B. E. Hines, D. H. Staelin, D. J. Hutter, K. J. Johnston, D. Mozurkewich, R. S. Simon, J. L. Hershey, J. A. Hughes, G. H. Kaplan, *Astron. Astrophys.*, 193, 357-371 (1988)

Atmospheric Phase Measurements with the Mark III Stellar Interferometer

M. Colavita, M. Shao, D. H. Staelin, *Appl. Opt.* (in press)

Maximum Entropy Imaging of Polarization in Very Long Baseline Interferometry

M. A. Holdaway, J. F. C. Wardle, *Proc. S.P.I.E. No. 1351*, 71, (in press) 1990

Image Restoration by Redundant Spacing Calibration in Long Baseline Optical Interferometry

G. Schumacher, P. Cruzalebes, J.-L. Starck, *Proc. S.P.I.E.*, 1237, in press (1990)

3. SPECKLE INTERFEROMETRY:

Diffraction-limited Imaging of Stellar Objects Using Telescopes of Low Optical Quality
J. C. Dainty, *Opt. Comm.*, 7, 129-134 (1973)

Comparison of Methods for Processing Short-Exposure Data from Large Telescope
M. G. Miller, A. Schneiderman, P. F. Keller, *Ap. J.*, 186, L91-L94 (1973)

Stellar Speckle Interferometry

J. C. Dainty, *Laser Speckle and Related Phenomena*, Springer-Verlag, Second Edition 1984, Chapter 7 (1975)

Measurement of Stellar Angular Diameters by Speckle Interferometry

A. Labeyrie, *Proc. ICO Conf. (Japan. J. Appl. Phys.)*, 14, "Optical Methods in Scientific and Industrial Measurements", (Tokyo, Japan 1974), 283-289 (1975)

Laboratory-Simulated Speckle Interferometry

A. M. Schneiderman, P. F. Keller, M. G. Miller, *J. Opt. Soc. Am.*, 65, 1287-1292 (1975)

Computer Controlled Photometer for Speckle Interferometry

M. R. Nelson, *Image Processing Techniques in Astronomy*, D. Reidel, Holland (1975)

Speckle Interferometry on the 2.5m Isaac Newton Telescope

D. R. Beddoes, J. C. Dainty, B. L. Morgan, R. J. Scaddan, *J. Opt. Soc. Am.*, 66, 1247-1251 (1976)

Spectroscopic Binaries as a Source for Astronomic and Speckle Interferometric Studies

H. A. McAlister, *P. A. S. P.*, 88, 317-322 (1976)

How to Build a Speckle Interferometer

A. M. Schneiderman, D. P. Karo, *Proc. SPIE*, 75, 70-82 (1976)

Binary Star Speckle Interferometry

H. A. McAlister, *Sky and Telescope*, 53, 346-350 (1977)

Speckle Interferometry as a Method of Detecting Nearby Extrasolar Planets

H. A. McAlister, *Icarus*, 30, 789-792 (1977)

Speckle Interferometry with a Linear Digicon Detector

G. D. Schmidt, J. R. P. Angel, R. Harms, *P. A. S. P.*, 89, 410-414 (1977)

An Online Digital Autocorrelator for Speckle Interferometry

P. R. Vokac, *Proc. SPIE*, 119, 223-231 (1977)

Astronomical Image Reconstruction in Astronomy

S. P. Worden, *Vistas in Astronomy*, 20, 301-307 (1977)

Computer Simulations of Speckle Interferometry of Binary Stars in the Photon-counting Mode

J. C. Dainty, *M. N. R. A. S.*, 183, 223-226 (1978)

Telescope Requirements for Speckle Interferometry

J. C. Dainty, *Proc. ESO/CERN Conf.*, "Optical Telescopes of the Future", 43-46 (1978)

The Use of a CCD in the Reduction of Speckle Interferometry Data

C. L. Davies, *Proc. Conf., "Photoelectronic Imaging Devices"*, Academic Press, (London, England) (1978)

Measurements of Atmospheric Isoplanatism Using Speckle Interferometry

P. Nisenson, R. V. Stachnik, *J. Opt. Soc. Am.*, 68, 169-175 (1978)

Measurements of R0 with Speckle Interferometry

A. M. Schneiderman, D. P. Karo, *J. Opt. Soc. Am.*, 68, 348-351 (1978)

Speckle Interferometry Measurements of Atmospheric Non-Isoplanicity Using Double Stars

A. M. Schneiderman, D. P. Karo, *J. Opt. Soc. Am.*, 68, 338-347 (1978)

Speckle Interferometry with a 1 Meter Telescope

G. Weigelt, *Astron. Astrophys.*, 67, L11-L12 (1978)

A Method for Processing Stellar Speckle Interferometry Data

G. L. Welter, S. P. Worden, *J. Opt. Soc. Am.*, 68, 1271-1275 (1978)

Imaging System Using Intensity Triple Correlator

T. Sato, S. Wadaka, J. Yamamoto, J. Ishii, *Appl. Opt.*, 17, 2047-2052 (1978)

Measurement of Stellar Speckle Interferometry Lens-atmosphere Modulation Transfer Function

C. Aime, S. Kadiri, G. Ricort, C. Roddier, J. Vernin, *Opt. Acta*, 26, 575-581 (1979)

Kitt Peak Speckle Camera

J. B. Breckinridge, H. A. McAlister, W. G. Robinson, *Appl. Opt.*, 18, 1034-1041 (1979)

Speckle Interferometry and Speckle Holography with the 1.5 and 3.6m ESO Telescopes

J. Ebersberger, G. P. Weigelt, *The Messenger*, 18, 24-27 (1979)

Comments on a Method for Processing Stellar Speckle Data

R. L. Fante, *J. Opt. Soc. Am.*, 69, 1394-1396 (1979)

Observational Speckle Interferometry

L. Koechlin, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"*, Paper 24 (1979)

Laboratory Simulation of Stellar Speckle Interferometry

D. P. Karo, A. M. Schneiderman, *Appl. Opt.*, 18, 828-833 (1979)

Speckle Interferometry I: The Steward Observatory Speckle Camera

G. Hubbard, E. K. Hege, M. Reed, P. Strittmatter, N. Woolf, *A. J.*, 84, 1437-1442 (1979)

High Angular Resolution Binary Star Interferometry

H. A. McAlister, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"*, Paper 3 (1979)

The Accuracy of Binary Star Speckle Interferometry

H. A. McAlister, *Proc. IAU Coll. #48, "Modern Astrometry"* (1979)

Astronomical Speckle Interferometry: Measurements of Isoplanicity and of Temporal Correlation

A. W. Lohmann, G. P. Weigelt, *Optik*, 53, 167-180 (1979)

Speckle and Intensity Interferometry. Applications to Astronomy

F. Roddier, *Proc. Winter-School Les Houches* (1979)

High-Resolution Astrophotography: New Isoplanicity Measurements and Speckle Holography Applications

G. Weigelt, *Opt. Acta*, 26, 1351-1357 (1979)

Modulation Transfer Function for Infra-Red Stellar Speckle Interferometry; Evidence for a Log-Normal Statistic

A. Chelli, P. Lena, C. Roddier, F. Roddier, F. Sibille, *Opt. Acta*, 26, 583-595 (1979)

Infrared Speckle Interferometry

F. Sibille, A. Chelli, P. Lena, *Astron. Astrophys.*, 79, 315-328 (1979)

Speckle Interferometry in the Near Infra-Red

M. J. Selby, R. Wade, C. Sanchez Magro, *M. N. R. A. S.*, 187, 553-566 (1979)

Speckle Interferometry in the Near Infrared

R. Wade, M. J. Selby, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"*, Paper 29 (1979)

The Influence of Scanning Rate in Sequential Analysis of a Speckle Pattern. Application to Speckle Boiling

C. Aime, S. Kadiri, G. Ricort, *Opt. Comm.*, 35, 169-174 (1980)

Applications of Digital and Optical-Digital Stellar Speckle Interferometry

G. Baier, J. Ebersberger, A. Lohmann, G. Weigelt, *Proc. SPIE*, 264, 58-63 (1980)

Speckle Interferometry Measurements of Astronomical Objects With Simulated Multiple Mirror Telescopes

J. Bialetzki, G. P. Weigelt, *Optik*, 55, 199-206 (1980)

Computer Simulation Comparisons of Speckle Image Reconstruction Techniques

W. J. Cocke, *Proc. SPIE*, 231, 99-105 (1980)

Observational Speckle Interferometry

D. Bonneau, M. Faucherre, L. Koechlin, F. Vakili, *Proc. SPIE*, 243, 80-82 (1980)

A Fast Real-time Processor for Speckle Interferometry

T. W. Cole, *Proc. Astron. Soc. Australia*, 4, 19-21 (1980)

Astronomical Imaging By Processing Stellar Speckle Interferometry Data

J. R. Fienup, G. B. Feldkamp, *Proc. SPIE*, 243, 95-102 (1980)

Application du Codage Multiplex a l'Interferometrie de Speckle en Astronomie Infrarouge

J. Gay, A. Journet, S. Bensammar, B. de Batz, *J. Optics (Paris)*, 11, No. 2, 111-117 (1980)

An Intensified Event-detecting Television System for Astronomical Speckle Interferometry

E. K. Hege, E. N. Hubbard, P. A. Strittmatter, *Proc. SPIE*, 264, 29-33 (1980)

Data Recording and Processing for Speckle Image Reconstruction

P. Nisenson, R. V. Stachnik, C. Papaliolios, P. Horowitz, *Proc. SPIE*, 243, 88-94 (1980)

New Trends in Stellar Speckle Interferometry

F. Roddier, *Proc. SPIE*, 243, 83-87 (1980)

The Steward Observatory Speckle Interferometry Program

P. A. Strittmatter, *Proc. SPIE*, 243, 75-79 (1980)

High Angular Resolution Astronomical Techniques: Speckle Interferometry and Related Methods

S. P. Worden, *Proc. SPIE*, 243, 66-74 (1980)

The AFGL Image Reconstruction Program II: Speckle Interferometry

S. P. Worden, E. K. Hege, E. N. Hubbard, N. J. Woolf, P. A. Strittmatter, *AFGL Report, Air Force Space Division, SD-TR-82-45* (1980)

Speckle Interferometry I: A Test on an Earth Orbital Satellite

S. P. Worden, E. K. Hege, E. N. Hubbard, M. S. Gresham, P. A. Strittmatter, *AFGL Report, Air Force Space Division, SD-TR-82-46* (1980)

Diffraction Limited Information on Large Telescopes with Infrared Speckle Interferometry

P. Lena, F. Sibille, A. Chelli, *Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s"*, 840-849 (1980)

Interferometry with Arrays of Large Aperture Telescopes

A. H. Greenaway, *Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s"*, 755-785 (1980)

High Resolution Imaging at Large Telescopes

P. Nisenson, R. V. Stachnik, C. Papaliolios, *Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s"*, 401-417 (1980)

Interferometry with Arrays of Large-aperture Ground Based Telescopes

A. Labeyrie, *Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s"*, 786-796 (1980)

The Steward Observatory Speckle Interferometry System

E. K. Hege, P. A. Strittmatter, W. J. Cocke, *Proc. ICO-12 Conf., "Current Trends in Optics", (Graz, Austria)*, 134 (1981)

Speckle Interferometry, Speckle Holography, Speckle Spectroscopy, and Reconstruction of High-resolution Images from ST Data

G. Weigelt, *Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths"*, 95-114 (1981)

Probability of Diffraction-limited Images in Infrared through Turbulence - Experimental Results

J. P. Cortegianni, J. Gay, Y. Rabbia, *Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths"*, 175-180 (1981)

One-Dimensional Infrared Speckle Interferometry

R. R. Howell, D. W. McCarthy, F. J. Low, *Ap. J.*, 251, L21-L25 (1981)

Infrared Imaging and Speckle Observations with a TV Camera

P. Lamy, S. Koutchmy, *The Messenger* (1981)

Interferometry with the Multiple Mirror Telescope and Conventional Telescopes

F. J. Low, *Proc. ESO Conf.*, "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths", 263-272 (1981)

An Infrared Speckle Interferometer

C. Perrier, *The Messenger*, 25, 26-29 (1981)

Calibration of the Atmospheric MTF

F. Roddier, C. Aime, *Proc. Sac Peak Conf.*, "Solar Instrumentation: What's Next?", 434-442 (1981)

Recent Interferometric Results

S. P. Worden *Proc. Sac Peak Conf.*, "Solar Instrumentation: What's Next?", 443-458 (1981)

Experiments in Differential Speckle Interferometry

J. M. Beckers, E. K. Hege, *Proc. IAU Coll. #67*, "Instrumentation for Astronomy with Large Optical Telescopes", 199-206 (1982)

Speckle Interferometry with the BTA Telescope

V. N. Dudinov, V. V. Konichek, S. G. Kuzmenkov, V. S. Tsvetkova, V. S. Rylov, L. V. Gyavgyanen, V. N. Erokhin, *Proc. IAU Coll. #67*, "Instrumentation for Astronomy with Large Optical Telescopes", 191-198 (1982)

The Steward Observatory Speckle Interferometry System

E. K. Hege, E. N. Hubbard, P. A. Strittmatter, W. J. Cocke, *Opt. Acta*, 29, 701-715 (1982)

Development of a Dual Microchannel Plate Intensified CCD Speckle Camera

H. A. McAlister, W. G. Robinson, S. L. Marcus, *Proc. SPIE*, 331, 113 (1982)

Speckle Interferometry and Related Techniques with Advanced Technology Optical Telescope

G. Weigelt, *Proc. SPIE*, 332, 284-291 (1982)

The Application of Bates' Algorithm to Binary Stars

W. G. Bagnuolo, *M. N. R. A. S.*, 200, 1113-1122 (1982)

Infrared Speckle Interferometry, Results, True Image Reconstruction and Instrumental Plans

A. Chelli, C. Perrier, J. -M. Mariotti, *Proc. Second ESO Infrared Workshop*, 153-157 (1982)

Two-dimensional Infrared Speckle Interferometry with a 32x32 InSb Charge-Injection Device (CID) Array

F. Sibille, P. Lena, A. Chelli, D. Stefanovitch, *Proc. SPIE*, 331, 26-28 (1982)

Application of Infrared Arrays to Speckle Interferometry

F. Sibille, D. Stefanovitch, A. Chelli, *Proc. Second ESO Infrared Workshop*, 207-213 (1982)

Differential Speckle Interferometry: A New Tool for Double Star Research

J. M. Beckers, *Proc. IAU Colloq., #62, "Current Techniques in Double and Multiple Star Research"*, Lowell Obs. Bull. No. 167, 165-175 (1983)

The Differential Speckle Interferometer

J. M. Beckers, E. K. Hege, H. P. Murphy, *Proc. SPIE, 445, 462-468* (1983)

Differential Speckle Interferometry: Test on Atmospheric Dispersion

C. Aime, S. Kadiri, F. Martin, R. Petrov, G. Ricort, *Proc. AAS/OSA Joint Topical Meeting, FA10, "Information Processing in Astronomy and Optics"* (1983)

The Simulation and Results of a New Speckle Image Processing Technique

F. M. Cady, R. H. T. Bates, *Proc. IAU Coll. #62, "Current Techniques in Double and Multiple Star Research"*, Lowell Obs. Bull. No. 167, 176-179 (1983)

Speckle Interferometry Using a Hardwired Real-Time Autocorrelator

J. C. Hebden, B. L. Morgan, H. A. Vine, *Proc. SPIE, 445, 477-483* (1983)

High-Speed Digital Signal Processing for Speckle Interferometry

E. K. Hege, W. J. Cocke, P. A. Strittmatter, S. P. Worden, *Proc. SPIE, 445, 469-476* (1983)

Five Years of Double Star Interferometry and Its Lessons

H. A. McAlister, *Proc. IAU Coll. #62, "Current Techniques in Double and Multiple Star Research"*, Lowell Obs. Bull. No. 167, 125-143 (1983)

Astronomical Speckle Interferometry

H. A. McAlister, *Proc. AAS/OSA Joint Topical Meeting FA9, "Information Processing in Astronomy and Optics"* (1983)

Image Reconstruction from Speckle-Interferograms, Speckle Spectroscopy, and the Deconvolution of ST Data

G. Weigelt, *Proc. AAS/OSA Joint Topical Meeting FA08, "Information Processing in Astronomy and Optics"* (1983)

Speckle Interferometry and Speckle Holography: Techniques and Limitations

G. Weigelt, *Proc. IAU Coll. #62, "Current Techniques in Double and Multiple Star Research"*, Lowell Obs. Bull. No. 167, 144-153 (1983)

Recent Results of IR Speckle Interferometry at ESO

C. Perrier, *The Messenger, 33, 16-19* (1983)

How to Achieve Diffraction Limited Resolution with Large Space Telescopes

F. Roddier, *Adv. Space Res., 2, No. 4, 3-9* (1983)

Measurement of Submilliarcsecond Speckle Displacements Using a Cross Spectrum Analysis Technique: Test on Atmospheric Dispersion

C. Aime, S. Kadiri, F. Martin, R. Petrov, G. Ricort, *Astron. Astrophys., 134, 354-359* (1984)

The Interpretation of Astronomical Speckle Interferometry Results

E. K. Hege, J. Drummond, A. Y. S. Cheng, J. C. Christou, P. A. Strittmatter, *Bull. Am. Ast. Soc., 16, 903* (abstract) (1984)

Speckle Interferometry, Speckle Masking, Speckle Spectroscopy and Speckle Frame Selection

G. Weigelt, *Proc. IAU Coll. #79, "Very Large Telescopes, Their Instrumentation and Programs"*, 337-345 (1984)

Infrared Speckle Methods

A. Chelli, *Proc. IAU Coll. #79, "Very Large Telescopes, Their Instrumentation and Programs"*, 309-336 (1984)

Deconvolution of Images Recorded with Large Space Telescopes: Roll Deconvolution and Aberration Plate Method

M. Muller, M. Walter, G. Weigelt, *Proc. ICO-13 Conf., "Optics in Modern Science and Technology"*, 52 (1984)

High-resolution Imaging with Large Space Telescopes

G. Weigelt, *Proc. ICO-13 Conf., "Optics in Modern Science and Technology"*, 558 (1984)

New Prospects in High Angular Resolution Stellar Interferometry

F. Roddier, *Proc. ICO Conf., "Progress in Optical Physics"* (1984)

Seeing Calibration of Optical Astronomical Speckle Interferometric Data

J. C. Christou, A. Y. S. Cheng, J. D. Freeman, E. K. Hege, C. Roddier, *A. J.*, 90, 2644-2651 (1985)

Speckle Imaging with the PAPA Detector

C. Papaliolios, P. Nisenson, S. Ebstein, *Appl. Opt.*, 24, 287-292 (1985)

Use of Matched Filtering to Identify Speckle Locations

E. Ribak, E. K. Hege, J. C. Christou, *Proc. SPIE*, 556, 196-201 (1985)

Speckle Interferometry, Image Reconstruction by Speckle Masking, Speckle Spectroscopy, Multiple-mirror Interferometry

G. Weigelt, G. Baier, J. Ebersberger, F. Fleischmann, K. -H. Hofmann, R. Ladebeck, *Proc. SPIE*, 556, 238-247 (1985)

Astronomical Speckle Interferometry in the Infrared

H. M. Dyck, R. R. Howell, *Proc. SPIE*, 556, 274-278 (1985)

Differential Speckle Imaging with the Cophased Multiple Mirror Telescope

J. C. Hebden, E. K. Hege, J. M. Beckers, *Proc. SPIE*, 556, 284-289 (1985)

Differential Speckle Interferometry Using the MMT

J. C. Hebden, E. K. Hege, J. M. Beckers, *Bull. Am. Ast. Soc.*, 16, 886 (1985)

Imaging Speckle Interferometer (ISI) in Space: Digital Simulations of Image Reconstruction and Photon Noise

K. -H. Hofmann, G. Weigelt, *Proc. ESA Colloq., "Kilometric Optical Arrays in Space"*, 121-128 (1985)

Roll Deconvolution of Space Telescope Data: Inverse Filtering of Two Speckle Interferograms

M. Muller, G. Weigelt, *Proc. SPIE*, 556, 270-273 (1985)

Roll Deconvolution of Space Telescope Data

M. Walter, G. Weigelt, *Adv. Space Res.*, 5, No. 3, 169 (1985)

Speckle Interferometry and Differential Speckle Imagery Using Cross-spectrum Techniques
C. Aime, R. Petrov, F. Martin, G. Ricort, J. Borgnino, *Optical. Engr.*, 25, 716-723 (1986)

Isoplanicity Measurements for Calibration of Speckle Holography Amplitudes
J. C. Christou, E. K. Hege, *Opt. Comm.*, 58, 4-9 (1986)

First Results from the New GSU CCD Speckle Camera
W. J. Hartkopf, *Proc. IAU Symposium #109, "Astrometric Techniques"*, 301 (1986)

The Noise Bias Problem in Optical Speckle Imaging: Experience with a Real Detector
E. K. Hege, A. Eckart, J. C. Christou, *Proc. SPIE*, 627, 772-779 (1986)

Differential Speckle Imaging with the Cophased Multiple Mirror Telescope
J. C. Hebden, E. K. Hege, J. M. Beckers, *Optical Engr.*, 25, 712 (1986)

Speckle Interferometry in Astrometry
H. A. McAlister, *Proc. IAU Symposium #109, "Astrometric Techniques"*, 293 (1986)

Speckle Interferometry at Imperial College
B. L. Morgan, C. Standley, H. A. Vine, *Proc. SPIE*, 627, 805-813 (1986)

Speckle Masking, Speckle Spectroscopy and Optical Aperture Synthesis
G. Weigelt, K. -H. Hofmann, T. Reinheimer, *Proc. ESO Workshop, 24, "Second Workshop on the ESO Very Large Telescope"*, 289-296 (1986)

High Resolution Speckle Methods for Overcoming Image Degradation Caused by the Atmosphere and Telescope Aberrations
G. Weigelt, G. Baier, J. Ebersberger, F. Fleischmann, K. -H. Hofmann, R. Ladebeck, *Opt. Engr.*, 25, 706 (1986)

A Comparative Study of Deconvolution Techniques for Infrared Speckle Interferometry
M. L. Cobb, D. W. McCarthy, *Proc. SPIE*, 627, 758-765 (1986)

ESO Infrared Specklegraph
C. Perrier, *The Messenger*, 45, 29-32 (1986)

Applications of Image Sharpness Criteria in Infrared Speckle Interferometry
D. W. McCarthy, M. L. Cobb, *Proc. SPIE*, 627, 797-804 (1986)

Infrared Speckle Interferometry: A Sensitive Technique for Physical Measurements of Unseen Companions to Nearby Stars
D. W. McCarthy, *Proc. IAU Symposium #109, "Astrometric Techniques"* (1986)

Speckle Imaging Techniques
J. C. Dainty, *Proc. SPIE*, 828, 2-7 (1987)

Comparison of Phase Retrieval Algorithms Applied to Infrared Astronomical Speckle Data
J. D. Freeman, J. C. Christou, D. W. McCarthy, M. L. Cobb, *Proc. SPIE*, 828, 40-46 (1987)

Speckle Imaging at CFA

P. Nisenson, M. Karovska, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 229-230 (1987)

Speckle Masking and Speckle Spectroscopy

G. Weigelt, K. -H. Hofmann, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 43-46 (1987)

Probability Imaging of Double and Multiple Stars

C. Aime, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 63-66 (1987)

High Angular Resolution Infrared Imaging at NOAO

J. C. Christou, J. M. Beckers, F. Roddier, J. D. Freeman, D. W. McCarthy, M. L. Cobb, R. G. Probst, *Proc. Hawaii Workshop, "Ground-Based Astronomical Observations with Infrared Array Detectors"* (1987)

Infrared Speckle Interferometry on Calar Alto

C. Leinert, M. Haas, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 233-236 (1987)

Infrared Speckle Calibration Methods

C. Perrier, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 13-16 (1987)

High Angular Resolution with Imaging Array Detectors

P. Lena, *Proc. Hawaii Workshop, "Ground-Based Astronomical Observations with Infrared Array Detectors"* (1987)

ISIS: Image Reconstruction Methods and Signal-to-Noise Ratio Investigations

K. -H. Hofmann, G. Weigelt, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 37-40 (1987)

High-resolution Astronomical Imaging by Roll Deconvolution of Space Telescope Data

M. Muller, G. Weigelt, *Astron. Astrophys.*, 175, 312-318 (1987)

The Fraction of Close Binaries Among Hubble Space Telescope Guide Stars - Operation Consequences, Workaround and Suggestions for Designers of Future Space Observatories

M. M. Shara, R. Doxsey, E. N. Wells, H. A. McAlister, *P. A. S. P.*, 99, 223 (1987)

Experience with the Matched Filtered Weighted-shift-and-add Method

E. K. Hege, N. V. Strobil, E. Ribak, J. C. Christou, *Proc. SPIE*, 828, 54-61 (1987)

Calibration Problems in Solar Speckle Interferometry

O. von der Luhe, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 9-12 (1987)

Application of Bispectrum Analysis for Phase Recovery from One-Dimensional Infrared Speckle Data

J. D. Freeman, J. C. Christou, F. Roddier, D. W. McCarthy, M. L. Cobb, *J. Opt. Soc. Am.* (in press)

Simulating Speckle Interferometry

E. M. Johansson, T. W. Lawrence, J. P. Fitch, R. J. Sherwood, *Proc. S.P.I.E.*, 1237, in press (1990)

High Bandwidth Data Recording and Quicklook Display System for a MAMA Photo-Counting Speckle Camera

G. Eichhorn, E. K. Hege, *Proc. S.P.I.E.*, 1237, in press (1990)

Laboratory Results in Low-light Post-detection Turbulence Compensation Using Wavefront Sensor Speckle Holography

J. D. Gonglewski, D. G. Voelz, D. C. Dayton, B. K. Spielbusch, R. E. Pierson, *Proc. S.P.I.E. No. 1351*, in press (1990)

Aperture Synthesis Using Integrated Optical Devices

D. A. Hayner, M. Dell'Eva, B. James, *Proc. S.P.I.E. No. 1351*, in press (1990)

Laser-speckle Data Collection Experiments

P. D. Henshaw, D. E. B. Lees, R. F. Dillon, *Proc. S.P.I.E. No. 1351*, in press (1990)

Experimental Verification of Extended Image Reconstruction Using Bispectral Speckle Interferometry

T. W. Lawrence, *Proc. S.P.I.E. No. 1351*, in press (1990)

Satellite Imaging with Speckle Interferometry

P. D. Shubert, *Proc. S.P.I.E. No. 1351*, in press (1990)

Wavefront-Sensed Speckle Holography

S. A. Van Peurse, E. K. Hege, F. J. Roddier, *Proc. S.P.I.E.*, 1237, in press (1990)

4. COHERENT TELESCOPE ARRAYS:

Non-Redundant Phased-Array Radar

W. K. Klemperer, *IEEE (UK) Conf. Publication 105*, 74-80 (1973)

Lock-in Image Subtraction: Detectability of Circumstellar Planets with the Large Space Telescope

D. Bonneau, M. Josse, A. Labeyrie, "Image Processing Techniques in Astronomy", D. Reidel (Holland) (1975)

The Potential of a Telescope Array for Long-Baseline Michelson Interferometry with Two or More Large Telescopes

A. H. Greenaway, *Kitt Peak Report* (1978)

Coherent Arrays

A. Labeyrie, *Proc. ESO/CERN Conf., "Optical Telescopes of the Future"*, 373-386 (1978)

The Interferometric Observing Efficiency of Arrays of Large Aperture Telescopes

A. H. Greenaway, *Opt. Comm.*, 29, 279-283 (1979)

"FLUTE", A Long-baseline Optical Interferometer in Space,

A. Labeyrie, *Proc. KPNO Conf. "Optical and Infrared Telescopes of the 1990's"*, 5, 1020-1026 (1980)

Interferometry with Arrays of Large Aperture Telescopes

A. H. Greenaway, *Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s"*, 755-785 (1980)

Interferometry with Arrays of Large-aperture Ground Based Telescopes

A. Labeyrie, *Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s"*, 786-796 (1980)

Interferometry with the Multiple Mirror Telescope and Conventional Telescopes

F. J. Low, *Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths"*, 263-272 (1981)

Multiple Telescope Interferometry

A. Labeyrie, *Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared"* (1981)

The Performance of the Multiple Mirror Telescope: VIII. The MMT as an Optical-Infrared Interferometer and Phased Array

D. W. McCarthy, P. A. Strittmatter, E. K. Hege, F. J. Low, *Proc. SPIE*, 332, 57-65 (1982)

Optical Interferometry with the MMT

J. M. Beckers, E. K. Hege, P. A. Strittmatter, *Proc. SPIE*, 444, 85-92 (1983)

The Use of the Multiple Mirror Telescope as a Phased Array

J. M. Beckers, E. K. Hege, F. J. Low, D. W. McCarthy, P. A. Strittmatter, *Proc. SPIE*, 440, 136 (1983)

Use of Unfilled Apertures in Space for Optical and Near-Infrared Imaging

S. H. Knowles, K. J. Johnston, M. Shao, R. Simon, J. H. Spencer, *Proc. AAS/OSA Joint Topical Meeting, "Information Processing in Astronomy and Optics"*, FA6 (1983)

Future Possibilities of Ground-based Interferometry in the Visible

F. Roddier, *Proc. ESO Workshop, 17, "ESO's Very Large Telescope"*, 155-161 (1983)

The Versatile Array

N. J. Woolf, J. R. P. Angel, D. W. McCarthy, *Proc. SPIE, 444, 78* (1983)

The Two-Mirror Telescope (2MT)

R. G. Bingham, *Proc. IAU Coll. #79, "Very Large Telescopes, Their Instrumentation and Programs"*, 347-366 (1984)

The Use of the MMT for Interferometric Imaging

J. M. Beckers, E. K. Hege, *Proc. IAU Coll. #79, "Very Large Telescopes, Their Instrumentation and Programs"*, 279-293 (1984)

Interferometry with Large Telescopes

P. Lena, *Proc. IAU Coll. #79, "Very Large Telescopes, Their Instrumentation and Programs"*, 245-256 (1984)

A New Concept for a Giant Optical/Infrared Telescope

G. W. Swenson, C. S. Gardner, R. H. T. Bates, *Summaries of Papers, Australia Opt. Soc. Conf.*, 24-25 (1984)

TRIO: A Kilometric Optical Array Controlled by Solar Sails

A. Labeyrie, B. Authier, J. B. Boit, T. de Graauw, E. Kibblewhite, L. Koechlin, P. Rabout, G. Weigelt, *Bull. Am. Ast. Soc.*, 16, 828 (1984)

Laboratory Demonstration of Image Reconstruction for COSMIC

W. A. Traub, *Proc. SPIE, 440, "Synthetic Aperture Systems"*, 143-147 (1984)

COSMIC: A High Resolution, Large Collecting Area Telescope

W. A. Traub, N. P. Carleton, *Bull. Am. Ast. Soc.*, 16, 805-809 (1984)

New Prospects in High Angular Resolution Stellar Interferometry

F. Roddier, *Proc. ICO Conf., "Progress in Optical Physics"* (1984)

The Multiple Mirror Telescope as a Phased Array Telescope

E. K. Hege, J. M. Beckers, P. A. Strittmatter, D. W. McCarthy, *Appl. Opt.*, 24, 2565-2576 (1985)

TRIO Interferometer Positioning

B. Authier, *Proc. ESA Colloq., "Kilometric Optical Arrays in Space"* (1985)

TRIO Optics

B. Authier, P. Rabout, A. Labeyrie, *Proc. ESA Colloq., "Kilometric Optical Arrays in Space"*, 79-84 (1985)

The OASIS Correlator

P. D. Atherton, A. H. Greenaway, J. E. Noordam, *Proc. ESA Colloq., "Kilometric Optical Arrays in Space"*, 141-144 (1985)

TRIO a Kilometric Array Stabilized by Solar Sails

A. Labeyrie, B. Authier, T. de Graauw, E. Kibblewhite, G. Weigelt, *Proc. ESA Colloq., "Kilometric Optical Arrays in Space"*, 121-128 (1985)

OASIS: Optical Aperture Synthesis in Space

J. E. Noordam, P. D. Atherton, A. H. Greenaway, *Proc. ESA Colloq., "Kilometric Optical Arrays in Space"*, 63-69 (1985)

COSMIC: A High Resolution, Large Collecting Area Telescope

W. A. Traub, N. P. Carleton, *Proc. ESA Colloq., "Kilometric Optical Arrays in Space"*, 121-128 (1985)

TRIANGLE: A Different Design for a Three Satellite Interferometer in Space

F. Vakili, *Proc. ESA Colloq., "Kilometric Optical Arrays in Space"*, 107-112 (1985)

Slicing the Sky: Sharper Images with an Orbiting Array of Optical Telescopes

W. A. Traub, *Infinite Vistas: New Tools for Astronomy*, ed. E. J. Cornell and J. Carr (Chas. Scribners Sons, N. Y.), 67-103 (1985)

Planning the National New Technology Telescope (NNTT). IV. Coalignment/Cophasing System

J. M. Beckers, Ker-Li Shu, S. Shaklan, *Proc. SPIE*, 628, 102-106 (1986)

Giant Infrared Telescopes for Astronomy: A Scientific Rationale

H. M. Dyck, E. J. Kibblewhite, *P. A. S. P.*, 98, 260-267 (1986)

Interferometric Imaging with the Very Large Telescope, Final Report Presented by the ESO/VLT Working Group on Interferometry

ESO, *VLT Report No. 49* (1986)

Use of the Coherent MMT for Diffraction Limited Imaging

J. C. Hebden, E. K. Hege, J. M. Beckers, *Proc. SPIE*, 628, 42-49 (1986)

The Optical Very Large Array

A. Labeyrie, G. Lemaitre, L. Koechlin, *Proc. SPIE*, 628, 323-332 (1986)

Interferometric Imaging with the Very Large Telescope

P. Lena, *Proc. ESO Workshop, 24, "Second Workshop on the ESO Very Large Telescope"*, 179-201 (1986)

Spatial Interferometry with the European VLT

F. Merkle, P. Lena, *Proc. SPIE*, 628, 261-272 (1986)

Beam Combination Modes of the VLT

F. Merkle, *Proc. ESO Workshop, 24, "Second Workshop on the ESO Very Large Telescope"*, 403-416 (1986)

Plans for Coalignment and Cophasing of the Optics in the 15 metres NNTT

J. M. Beckers, *Proc. SPIE*, 608 (1987)

Interferometric Capabilities of the NNTT

J. M. Beckers, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 171-172 (1987)

A Fiber-Linked Ground-Based Array

P. Connes, S. Shaklan, F. Roddier, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 165-168 (1987)

Solar Interferometry with a 4-Aperture Non-redundant and Stabilized Network

L. Dame, C. Aime, M. Faucherre, J. Heyvaerts, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 189-196 (1987)

Diffraction-limited Imaging with the Coherently Cophased MMT

E. K. Hege, D. W. McCarthy, J. C. Hebden, S. B. Shaklan, J. C. Christou, *Proc. SPIE*, 828, 20-26 (1987)

Interferometry with the European Very Large Telescope

P. Lena, F. Merkle, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 169-170 (1987)

Phased Array Imaging with the Multiple Mirror Telescope

E. K. Hege, D. W. McCarthy, J. C. Hebden, J. C. Christou, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 105-108 (1987)

Ground-based Interferometry with the European Very Large Telescope

F. Merkle, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 127-138 (1987)

Experience with the Matched Filtered Weighted-shift-and-add Method

E. K. Hege, N. V. Strobel, E. Ribak, J. C. Christou, *Proc. SPIE*, 828, 54-61 (1987)

Calibration Problems in Solar Speckle Interferometry

O. von der Luhe, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 9-12 (1987)

Fiber Linked Telescope Arrays on the Ground and in Space

P. Connes, F. Roddier, S. Shaklan, E. Ribak, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 73-84 (1987)

A Comparison of Interferometry from Space and Ground

A. H. Greenaway, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 5-10 (1987)

Imaging Strategies with a Space-borne Interferometer

F. Roddier, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 23-30 (1987)

OASIS: A Mission Concept

J. E. Noordam, A. H. Greenaway, J. D. Bregman, R. S. le Poole, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 51-60 (1987)

Optical 16-Telescope Interferometer at Erlangen

F. Fleischmann, F. Grieger, G. Weigelt, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 155-156 (1987)

Multiple Aperture Interferometry: Towards the Optical Very Large Array

A. Labeyrie, I. Bosc, D. Mourard, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 97-104 (1987)

ISIS: Image Reconstruction Experiments and Comparison of Various Array Configurations

T. Reinheimer, K. -H. Hofmann, G. Weigelt, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 41-44 (1987)

COSMIC

W. A. Traub, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 63-66 (1987)

Multiple Aperture Telescopes and Adaptive Optics in Astronomy

J. M. Beckers, *Proc. ICO-14 Conf., (Quebec, Canada, 1987)* (in press)

Progress of the Optical Very Large Array

A. Labeyrie, *Proc. S.P.I.E., 1237*, in press (1990)

Pupil Plane Beam-Recombination for a Nonmonolithic Array

J.-M. Mariotti, *Proc. S.P.I.E., 1237*, in press (1990)

Interferometric mode of the ESO Very Large Telescope

J. M. Beckers, G. P. di Benedetto, R. Braun, D. Enard, M. Faucherre, R. Foy, R. Genzel, L. Koechlin, F. Merkle, G. Weigelt, *Proc. S.P.I.E., 1236*, in press (1990)

Diffraction-limited Imaging Using Large Ground-Based Telescopes

T. S. McKechnie, *Proc. S.P.I.E., 1236*, in press (1990)

Factors Affecting the VLT Interferometric Mode for On-Axis Operation

J. M. Beckers, *Proc. S.P.I.E., 1236*, in press (1990)

Design of wide field array telescopes

C. Miao, R. R. Shannon, *Proc. S.P.I.E., 1236*, in press (1990)

Factors affecting the VLT Interferometric Mode for Wide Field-of-View Operation

J. M. Beckers, *Proc. S.P.I.E., 1236*, in press (1990)

Fundamental Limitations On Off-Axis Performance of Phased Telescope Arrays

J. E. Harvey, C. Ftaclas, *Proc. S.P.I.E., 1236*, in press (1990)

Four Telescope Phased Array Optical Simulation

B. D. O'Neil, C. R. DeHainaut, C. Hines, *Proc. S.P.I.E., 1236*, in press (1990)

Optical Diagnostic Equipment for Evaluating a Wide Field-of-View Phased Array Telescope

R. C. Dymale, J. P. Blea, *Proc. S.P.I.E., 1236*, in press (1990)

Dynamic modeling of a Phased Array Telescope

M. Jamshidi, J. A. Meinhardt, R. A. Carreras, *Proc. S.P.I.E., 1237*, in press (1990)

Non-coplanar Baselines Effect in Interferometry

T. J. Cornwell, R. A. Perley, *Proc. S.P.I.E. No. 1351*, in press (1990)

Phase Closure Imaging in Optical Aperture Synthesis

P. Cruzalebes, G. Schumacher, J. -L. Starck, *Proc. S.P.I.E. No. 1351*, (in press) (1990)

Optical Performance of a Wide Field-of-View Phased Array Telescope

C. R. DeHainaut, D. K. Marker, R. C. Dymale, J. P. Blea, *Proc. S.P.I.E.*, 1237, in press (1990)

Placement of Multiple Apertures for Imaging Telescopes

J. P. Fitch, T. W. Lawrence, *Proc. S.P.I.E.*, 1237, in press (1990)

Aperture Synthesis Using Integrated Optical Devices

D. A. Hayner, M. Dell'Eva, B. James, *Proc. S.P.I.E. No. 1351*, in press (1990)

Big Optical Array High Resolution Imaging Interferometer

K. J. Johnson, *Proc. S.P.I.E.*, 1237, in press (1990)

Control System Description and Performance of a Phased Array Telescope

J. A. Meinhardt, M. Jamshidi, C. A. Tipton, *Proc. S.P.I.E.*, 1236, in press (1990)

Pupil Geometry and Pupil Reimaging in Telescope Arrays

W. A. Traub, *Proc. S.P.I.E.*, 1237, in press (1990)

5. INFRARED EXPERIMENTS:

An Infrared Stellar Interferometer Using Heterodyne Detection

M. A. Johnson, *Proc. OSA Ann. Meeting*, 1350 (1972)

Infrared Interferometry

J. Gay, A. Journet, *Nature*, 241, 32-33 (1973)

Ten Micron Heterodyne Stellar Interferometer

M. A. Johnson, A. L. Betz, C. H. Townes, *Phys. Rev. Lett.*, 33, 1617-1620 (1974)

An Infrared Astrometric Interferometer

J. Gay, A. Journet, *Space Sci. Rev.*, 17, 687-688 (1975)

Design and Operation of an Infrared Spatial Interferometer

D. W. McCarthy, F. J. Low, R. R. Howell, *Opt. Engr.*, 16, 569-574 (1977)

Observational Techniques in Infrared Astronomy

P. Lena, G. Setti and G. G. Fazio, *D. Reidel*, Holland (1978)

Infrared Heterodyne Interferometry

C. H. Townes, E. C. Sutton, J. W. V. Storey, *Proc. ESO/CERN Conf., "Optical Telescopes of the Future"*, 409-425 (1978)

L'interferometre Infrarouge du Cerga

P. Assus, H. Choplin, J. P. Corteggiani, E. Cuot, J. Gay, A. Journet, G. Merlin, Y. Rabbia, *J. Optics (Paris)*, 10, No. 6, 345-350 (1979)

Modulation Transfer Function for Infra-red Stellar Speckle Interferometry: Evidence for a Log-normal Statistic

A. Chelli, P. Lena, C. Roddier, F. Roddier, F. Sibille, *Opt. Acta*, 26, 583-595 (1979)

Infrared Spatial Interferometry: Present Status and Future Plans

D. W. McCarthy, F. J. Low, R. Howell, *Proc. SPIE*, 172, 140-148 (1979)

La Haute Resolution Spatiale par Interferometrie dans le Proche Infrarouge

P. Lena, *J. Optics (Paris)*, 10, No. 6, 323-328 (1979)

Interferometric Measurements of Flattened Circumstellar Envelopes

D. W. McCarthy, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"* (1979)

Speckle Interferometry in the Near Infra-Red

M. J. Selby, R. Wade, C. Sanchez Magro, *M. N. R. A. S.*, 187, 553-566 (1979)

Infrared Speckle Interferometry

F. Sibille, A. Chelli, P. Lena, *Astron. Astrophys.*, 79, 315-328 (1979)

Results and Future Uses of Heterodyne Spatial Interferometry at 11 Microns

E. C. Sutton, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"* (1979)

Speckle Interferometry in the Near Infrared

R. Wade, M. J. Selby, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"* (1979)

Preliminary Results of Direct Michelson Interferometry at 2.2 Microns with Two Telescopes on a Base Line of 12 m

G. Di Benedetto, G. Conti, O. Citterio, E. Mattaini, L. Koechlin, *Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s"*, 1006-1012 (1980)

Diffraction Limited Information on Large Telescopes with Infrared Speckle Interferometry

P. Lena, F. Sibille, A. Chelli, *Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s"*, 840-849 (1980)

Probability of Diffraction-limited Images in Infrared through Turbulence Experimental Result

J. P. Cortegianni, J. Gay, Y. Rabbia, *Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths"*, 175-180 (1981)

Two-Telescope Michelson Stellar Interferometry at 2.2 Microns

O. Citterio, G. Conti, G. P. Di Benedetto, *Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths"*, 237-245 (1981)

Infrared Imaging and Speckle Observations with a TV Camera

P. Lamy, S. Koutchmy, *The Messenger* (1981)

One-Dimensional Infrared Speckle Interferometry

R. R. Howell, D. W. McCarthy, F. J. Low, *Ap. J.*, 251, L21-L25 (1981)

Interferometry with the Multiple Mirror Telescope and Conventional Telescopes

F. J. Low, *Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths"*, 263-272 (1981)

An Infrared Speckle Interferometer

C. Perrier, *The Messenger*, 25, 26-29 (1981)

Multiple Telescope Infrared Interferometry

C. H. Townes, E. C. Sutton, *Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths"*, 199-223 (1981)

Infrared Speckle Interferometry, Results, True Image Reconstruction and Instrumental Plans

A. Chelli, C. Perrier, J. -M. Mariotti, *Proc. Second ESO Infrared Workshop*, 153-157 (1982)

Two-dimensional Infrared Speckle Interferometry with a 32x32 InSb Charge-injection Device (CID) Array

F. Sibille, P. Lena, A. Chelli, D. Stefanovitch, *Proc. SPIE*, 331, 26-28 (1982)

Application of Infrared Arrays to Speckle Interferometry

F. Sibille, D. Stefanovitch, A. Chelli, *Proc. Second ESO Infrared Workshop*, 207-213 (1982)

Use of Unfilled Apertures in Space for Optical and Near Infrared Imaging

S. H. Knowles, K. J. Johnston, M. Shao, R. Simon, J. H. Spencer, *Proc. AAS/OSA Joint Topical Meeting, "Information Processing in Astronomy and Optics"*, FA6 (1983)

Aperture Synthesis in the Infrared: Prospects for a VLT

P. Lena, *Proc. ESO Workshop, "ESO's Very Large Telescope"*, 17, 129-140 (1983)

Experimental Results on Atmospheric Turbulence Obtained with an Infrared Speckle Interferometer

J. -M. Mariotti, *Opt. Acta*, 30, 831-840 (1983)

Near Infrared Imaging of Unseen Companions to Nearby Stars

D. W. McCarthy, *Proc. IAU Coll. #76, "The Nearby Stars and the Stellar Luminosity Function"*, 107-112 (1983)

Recent Results of IR Speckle Interferometry at ESO

C. Perrier, *The Messenger*, 33, 16-19 (1983)

Infrared Speckle Methods

A. Chelli, *Proc. IAU Coll. #79, "Very Large Telescopes, Their Instrumentation and Programs"*, 309-336 (1984)

Long Baseline Michelson Stellar Interferometry in the Near Infrared

G. P. Di Benedetto, *Astron. Astrophys.*, 148, 169-175 (1985)

Astronomical Speckle Interferometry in the Infrared

H. M. Dyck, R. R. Howell, *Proc. SPIE*, 556, 274-278 (1985)

A Comparative Study of Deconvolution Techniques for Infrared Speckle Interferometry

M. L. Cobb, D. W. McCarthy, *Proc. SPIE*, 627, 758-765 (1986)

NOAO Infrared Adaptive Optics Program III: Criteria for the Wavefront Sensor Selection

L. Goad, F. Roddier, J. M. Beckers, P. Eisenhardt, *Proc. SPIE*, 628, 305-313 (1986)

Applications of Image Sharpness Criteria in Infrared Speckle Interferometry

D. W. McCarthy, M. L. Cobb, *Proc. SPIE*, 627, 797-804 (1986)

The Search for Substellar Companions to Nearby Stars: Infrared Imaging from the Ground and from Space

D. W. McCarthy, *Proc. Conf., "Astrophysics of Brown Dwarfs"* (1986)

Infrared Speckle Interferometry: A Sensitive Technique for Physical Measurements of Unseen Companions to Nearby Stars

D. W. McCarthy, *Proc. IAU Symposium #109, "Astrometric Techniques"* (1986)

ESO Infrared Specklegraph

C. Perrier, *The Messenger*, 45, 29-32 (1986)

NOAO Infrared Adaptive Optics Program IV: IR Background Speckle Noise Induced by Adaptive Optics in Astronomical Telescope

F. Roddier, P. Eisenhardt, *Proc. SPIE*, 628, 314-322 (1986)

Long Baseline Spatial Interferometer for the IR

C. H. Townes, W. C. Danchi, B. Sadoulet, E. C. Sutton, *Proc. SPIE*, 628, 281-284 (1986)

High Angular Resolution Infrared Imaging at NOAO

J. C. Christou, J. M. Beckers, F. Roddier, J. D. Freeman, D. W. McCarthy, M. L. Cobb, R. G. Probst, *Proc. Hawaii Workshop, "Ground-based Astronomical Observations with Infrared Array Detectors"* (1987)

Infrared Speckle Interferometry on Calar Alto

C. Leinert, M. Haas, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 233-236 (1987)

High Angular Resolution with Imaging Array Detectors

P. Lena, *Proc. Hawaii Workshop, "Ground-based Astronomical Observations with Infrared Array Detectors"* (1987)

A Ground-based Interferometric System for the Near Infrared

J. -M. Mariotti, S. Ridgway, P. Lena, Y. Rabbia, F. Sibille, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 175-176 (1987)

A Rotation Shearing Interferometer for the Near Infrared

J. -M. Mariotti, A. Zadrozny, J. -L. Monin, I. Vauglin, *Proc. Hawaii Workshop, "Ground-based Astronomical Observations with Infrared Array Detectors"* (1987)

Imaging of Low Mass Binary Companions and Circumstellar Disks

D. W. McCarthy, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 237-240 (1987)

Infrared Speckle Calibration Methods

C. Perrier, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 13-16 (1987)

A Method for Multispectral Infrared Interferometry

S. T. Ridgway, J. -M. Mariotti, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 93-96 (1987)

Triple Shearing Interferometry and Shearing Spectroscopy

K. -H. Hofmann, G. Weigelt, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 83-84 (1987)

Nonimaging Techniques for the Extraction of Noncoherent Object Information and Its Processing

A. S. Marathay, *Proc. SPIE*, 828, 114-121 (1987)

Phase Closure with a Rotational Shear Interferometer

E. Ribak, *Appl. Opt.*, 26, 197-199 (1987)

Processing of Interferograms

C. Roddier, F. Roddier, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 25-28 (1987)

Image Reconstruction from Rotational Shear Interferograms: Laboratory and Astronomical Results

F. Roddier, C. Roddier, *Proc. SPIE*, 828, 108-113 (1987)

Two-dimensional Infrared Astronomical Speckle Interferometry

J. C. Christou, National Optical Astronomy Observatories; J. M. Beckers, European Southern Observatory (FRG); J. D. Freeman, Univ. of Arizona; S. T. Ridgway, R. G. Probst, National Optical Astronomy Observatories, *Proc. SPIE*, 976, 193 (1988)

Double Fourier Spatio-spectral Interferometry: Combining High Spectral and High Spatial Resolution in the Near Infrared

J. M. Mariotti, S. T. Ridgway, *Astron. Astrophys.*, 195, 350-363 (1988)

High Resolution Imaging in the Infrared Using Adaptive Optics

J. M. Beckers, *Proc. Workshop, "Towards Understanding Galaxies at Large Redshift"* (in press)

Image Reconstruction Techniques for the IR Optical Telescope Array

F. P. Schloerb, *Proc. S.P.I.E.*, 1237, in press (1990)

Artificial Satellites as Ground-Truth Objects for IR Optical Telescope Array

D. M. Gibson, *Proc. S.P.I.E.*, 1237, in press (1990)

Recent Progress on the IR Michelson Array

H. M. Dyck, J. A. Benson, W. L. Mason, S. T. Ridgway, R. R. Howell, *Proc. S.P.I.E.*, 1237, in press (1990)

Long Baseline Interferometer for the Mid-Infrared

M. W. Bester, W. C. Danchi, C. H. Townes, *Proc. S.P.I.E.*, 1237, in press (1990)

Deconvolution Techniques Applied to 2-D IR Speckle Interferometric Observations

J. C. Christou, J. D. Freeman, *Proc. S.P.I.E.*, 1237, in press (1990)

Some Statistical Properties of the Bispectrum of 1D IR Astronomical Speckle Data

J. D. Freeman, *Proc. S.P.I.E.*, 1237, in press (1990)

Optimization Techniques Applied to the Bispectrum of 1-D IR Astronomical Speckle Data

J. D. Freeman, *Proc. S.P.I.E.*, 1237, in press (1990)

Further Developments with the NOAO 2-D Speckle Camera for IR Wavelengths

S. T. Ridgway, J. C. Christou, R. G. Probst, *Proc. S.P.I.E.*, 1237, in press (1990)

Using Single Mode IR Fibers For Interferometry

V. Coude du Foresto, G. Maze, Le Verre, *Proc. S.P.I.E.*, 1237, in press (1990)

Infrared Array Camera for Interferometry with the Cophased Multiple Mirror Telescope

D. W. McCarthy, Jr., B. McLeod, D. J. Barlow, *Proc. S.P.I.E.*, 1237, in press (1990)

6. PUPIL PLANE INTERFEROMETRY:

An Achromatic Stellar Interferometer

W. M. Sinton, *A. J.*, 59, 369-375 (1954)

Resolution and Film-grain Noise in Fourier Transform Holograms Recorded with Coherent or Spatially Incoherent Light

S. Lowenthal, J. Serres, H. Arsenault, *Opt. Comm.*, 1, 438-442 (1970)

Coherence Interferometer and Astronomical Applications

J. B. Breckinridge, *Appl. Opt.*, 11, 2996-2998 (1972)

Two-dimensional White Light Coherence Interferometer

J. B. Breckinridge, *Appl. Opt.*, 13, 2760-2762 (1974)

Amplitude Interferometry and High Resolution Image Information

D. G. Currie, *Proc. OSA Topical Meeting, "Optical Propagation Through Turbulence"* (1974)

Amplitude Interferometry on the Large Space Telescope

D. G. Currie, *University of Maryland Tech. Rep. 77-056* (1977)

A White-light Amplitude Interferometer with 180 Degree Rotational Shear

J. B. Breckinridge, *Optical Engr.*, 17, 156-159 (1978)

Imaging with a Multi-mirror Telescope

F. Roddier, C. Roddier, *Proc. ESO/CERN Conf., "Optical Telescopes of the Future"*, 359-369 (1978)

A White-light Amplitude Interferometer with 180 Degree Rotational Shear

J. B. Breckinridge, *Optical Engr.*, 17, 156-159 (1978)

A Rotation Shearing Interferometer with Phase-compensated Roof-prisms

F. Roddier, C. Roddier, J. Demarcq, *J. Optics (Paris)*, 9, 145-149 (1978)

A Two-Dimensional White Light Amplitude Interferometer

J. B. Breckinridge, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"*, Paper 31 (1979)

On the Amplitude Interferometer Program at the University of Maryland

D. G. Currie, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"*, Paper 7 (1979)

Imaging with a Coherence Interferometer in Optical Astronomy

C. Roddier, F. Roddier, *Proc. IAU Coll. #49, "Image Formation from Coherence Functions in Astronomy"*, 175-179 (1979)

A 180-degree Rotation Shearing Interferometer with Increased Optical Efficiency

A. H. Greenaway, C. Roddier, *Opt. Comm.*, 32, 48-50 (1980)

A Shearing, Modulating Interferometer

E. Ribak, *Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared"*, 171-173 (1981)

Rotation Shearing Interferometry: A New Technique for Achieving High Angular Resolution
C. Roddier, F. Roddier, J. Vernin, *Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths"* 165-170 (1981)

High Angular Resolution with Rotation Shearing Interferometer: Preliminary Results and Future Potentials
F. Roddier, C. Roddier, *Proc. IAU Coll. #67, "Instrumentation for Astronomy with Large Optical Telescopes"*, 207-211 (1982)

How to Achieve Diffraction Limited Resolution with Large Space Telescopes
F. Roddier, *Proc. COSPAR Symp. #4, "Advanced Space Res. 2, No. 4, 3-9"* (1983)

Interferometric Image Reconstruction Using the L. D. R. in a Light Bucket Mode
F. Roddier, J. B. Breckinridge, *Bull. Am. Ast. Soc., 16 (No. 3), "Workshop on Optical Interferometry in Space"*, 832 (1984)

New Prospects in High Angular Resolution Stellar Interferometry
F. Roddier, *Proc. ICO Conf., "Progress in Optical Physics"* (1984)

Shearing Stellar Interferometer. 1: Digital Data Analysis Scheme
E. Ribak, E. Leibowitz, *Appl. Opt., 24, 3088-3093* (1985)

Shearing Stellar Interferometer. 2. Opto-electronic Phase-locked System
E. Ribak, E. Leibowitz, E. K. Hege, *Appl. Opt., 24, 3094-3100* (1985)

Real-time Fringe Contrast Measurement in Stellar Interferometry
E. Ribak, E. Leibowitz, E. K. Hege, *Proc. SPIE, 564* (1985)

Concepts for a Large Telescope in Space with Interferometric Imaging
P. Bely, F. Roddier, *Proc. AIAA 24th Aerospace Sciences Meeting* (1986)

High Angular Resolution Shearing Spectroscopy and Triple Shearing Interferometry
K. -H. Hofmann, G. Weigelt, *Appl. Opt., 25, 4280-4287* (1986)

The University of Maryland Program on Multi-aperture Amplitude Interferometry
D. G. Currie, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 21-24 (1987)

University of Maryland Program on Multi-aperture Amplitude Interferometry
D. G. Currie, *Proc. SPIE, 828, 102-107* (1987)

Triple Shearing Interferometry and Shearing Spectroscopy
K. -H. Hofmann, G. Weigelt, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 83-84 (1987)

Nonimaging Techniques for the Extraction of Noncoherent Object Information and Its Processing
A. S. Marathay, *Proc. SPIE, 828, 114-121* (1987)

A Rotation Shearing Interferometer for the Near Infrared

J. -M. Mariotti, A. Zadrozny, J. -L. Monin, I. Vauglin, *Proc. Hawaii Workshop, "Ground-based Astronomical Observations with Infrared Array Detectors"* (1987)

A Ground-based Interferometric System for the Near Infrared

J. -M. Mariotti, S. Ridgway, P. Lena, Y. Rabbia, F. Sibille, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 175-176 (1987)

Phase Closure with a Rotational Shear Interferometer

E. Ribak, *Appl. Opt.*, 26, 197-199 (1987)

A Method for Multispectral Infrared Interferometry

S. T. Ridgway, J. -M. Mariotti, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 93-96 (1987)

Processing of Interferograms

C. Roddier, F. Roddier, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 25-28 (1987)

Image Reconstruction from Rotational Shear Interferograms: Laboratory and Astronomical Results

F. Roddier, C. Roddier, *Proc. SPIE*, 828, 108-113 (1987)

Image Reconstruction from Rotational Shearing Interferograms

F. Roddier, C. Roddier, *Proc. SPIE*, 879, 4-9 (1988)

Compact Rotational Shearing Interferometer for Astronomical Applications

C. Roddier, F. Roddier, J. Demarcq, *Opt. Eng.*, 28, 66-70 (1989)

Diffraction-limited Imaging Through Aberrated Optics Using Pupil-plane and/or Image-plane Information

F. Roddier, C. Roddier, S. van Peurseem, *Proc. SPIE*, 1059, 173-179 (1989)

Double Fourier Spatio-spectral Interferometry: Combining High Spectral and High Spatial Resolution in the Near Infrared

J. -M. Mariotti, S. T. Ridgway, *Astron. Astrophys.* (in press)

Pupil Plane Beam Recombination for Long Baseline Array

J. -M. Mariotti, *Proc. S.P.I.E. No. 1351*, in press (1990)

Simultaneous Target Imaging and Velocity Measurements with a 2-D Coherent Ultraviolet Pupil Plane Detector Array

R. G. Morton, W. J. Connally, T. Olson, K. Avicola, C. J. Buczek, *Proc. S.P.I.E. No. 1351*, in press (1990)

Self-calibration with Rotational Shearing Interferometry

C. A. Roddier, *Proc. S.P.I.E. No. 1351*, in press (1990)

Coherent Image Synthesis Using a Shack-Hartmann Wavefront Sensor

D. G. Voelz, J. D. Gonglewski, P. S. Idell, D. C. Dayton, *Proc. S.P.I.E. No. 1351*, in press (1990)

7. *ATMOSPHERE-RELATED EXPERIMENTS*:

Experiences Preliminaires sur la Selection dans le Temps des Images Stellaires les Mieux de Finies

J. Rosch, *C. R. Acad. Sc. (Paris)*, 247, 422-425 (1958)

Measurements of the Atmospheric Transfer Function at Mauna Kea, Hawaii

J. C. Dainty, R. J. Scaddan, *M. N. R. A. S.*, 170, 519-532 (1975)

Some Results on the Imaging Objects in a Turbulent Medium

R. L. Fante, *AFCRL-TR-75-0546* (1975)

Quantitative Treatment of "Seeing" in Syst. Design of Solar Astr. Telescopes

C. E. Coulman, *Optical Instruments and Techniques*, Hone-Dickinson (Oriel Press) (1978)

Measurement of the Amplitude of Phase Excursions in the Earth's Atmosphere

J. B. Breckinridge, *J. Opt. Soc. Am.*, 66, 143-144 (1976)

Some Results on the Imaging of Incoherent Sources Through Turbulence

R. L. Fante, *J. Opt. Soc. Am.*, 66, 574-580 (1976)

Computer Simulation Studies of Compensation of Turbulence Degraded Images

B. L. McGlamery, *Proc. SPIE/OSA*, 74, 225-233 (1976)

Measurements of the Atmospheric Attenuation of the Spectral Components of Astronomical Images

C. Roddier, *J. Opt. Soc. Am.*, 66, 478-482 (1976)

An Interferometer for Determining the MTF of the Atmosphere

A. A. Tokovinin, *Sov. Astron. Lett.*, 4, 229-230 (1978)

The Influence of Scanning Rate in Sequential Analysis of Fringes Produced by a Michelson Interferometer

C. Aime, *Opt. Comm.*, 26, 139-142 (1978)

Measurements of R0 with Speckle Interferometry

A. M. Schneiderman, D. P. Karo, *J. Opt. Soc. Am.*, 68, 348-351 (1978)

Speckle Interferometry Measurements of Atmospheric Non-Isoplanicity Using Double Stars

A. M. Schneiderman, D. P. Karo, *J. Opt. Soc. Am.*, 68, 338-347 (1978)

Measurement of Stellar Speckle Interferometry Lens-atmosphere Modulation Transfer Function

C. Aime, S. Kadiri, G. Ricort, C. Roddier, J. Vernin, *Opt. Acta*, 26, 575-581 (1979)

High-Resolution Astrophotography: New Isoplanicity Measurements and Speckle Holography Applications

G. Weigelt, *Opt. Acta*, 26, 1351-1357 (1979)

The Influence of Scanning Rate in Sequential Analysis of a Speckle Pattern. Application to Speckle Boiling

C. Aime, S. Kadiri, G. Ricort, *Opt. Comm.*, 35, 169-174 (1980)

Solar Isoplanatic Patch Measurements

J. W. Hardy, *Proc. Sac Peak Conf., "Solar Instrumentation: What's Next?"*, 421-433 (1981)

Spatial Coherence Measurements Through Turbulent Atmosphere Using a Computer Aided Interferometer

K. Itoh, Y. Ohtsuka, *Opt. Commun.*, 36, 250-254 (1981)

Preliminary Measurements of the Size of the Isoplanatic Patch

J. C. Christou, *Proc. Southwest Reg. Conf. Astron. Astrophys.*, 8, 73 (1982)

High Resolution Imaging from the Ground

N. J. Woolf, *Ann. Rev. Astron. Astrophys.*, 20, 367-398 (1982)

Experimental Results on Atmospheric Turbulence Obtained with an Infrared Speckle-interferometer

J. -M. Mariotti, *Opt. Acta*, 30, 831-840 (1983)

Special Requirements for High Angular Resolution Interferometry

F. Roddier, *Proc. ESO Workshop, "Site Testing for Future Large Telescopes"*, A. Ardeberg and L. Woltjer (ESO), 193 (1983)

Isoplanicity Measurements for Calibration of Speckle Holography Amplitudes

J. C. Christou, E. K. Hege, *Opt. Comm.*, 58, 4-9 (1986)

Atmospheric Phase Measurements with the Mk II and Mk III Interferometers at Mt. Wilson

M. Colavita, M. Shao, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 205-208 (1987)

Atmospheric Isoplanatism and Astronomical Image Reconstruction on Mauna Kea

L. L. Cowie, A. Songaila, *J. Opt. Soc. Am. A.*, 5, 1015-1022 (1988)

Atmospheric Phase Measurements with the Mark III Stellar Interferometer

M. Colavita, M. Shao, D. H. Staelin, *Appl. Opt.* (in press)

Direct Determination of Atmospheric Phase Perturbation with a Novel Interferometer

N. Nightingale, D. Buscher, *Proc. S.P.I.E.*, 1237, in press (1990)

Numerical Seeing Simulation in One Dimension

R. G. Bingham, A. J. Penny, *Proc. S.P.I.E.*, 1237, in press (1990)

8. ADAPTIVE OPTICS:

Coherent Optical Adaptive Techniques

E. T. Bridges, *Appl. Opt.*, 13, 291-300 (1974)

Method for Evaluating Lateral Shearing Interferograms

M. P. Rimmer, *Appl. Opt.*, 13, 623-629 (1974)

Correction of Atmospheric Distortion with an Image-sharpening Telescope

A. Buffington, F. S. Crawford, R. A. Muller, A. J. Schwemin, R. G. Smits, *J. Opt. Soc. Am.*, 67, 298-303 (1977)

Postprocessing of Imagery from Active Optics: Some Pitfalls

R. E. Wagner, *Appl. Opt.*, 16, 175-179 (1977)

Active Control for Michelson Stellar Interferometers

J. W. Hardy, E. P. Wallner, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"* (1979)

Solar Isoplanatic Patch Measurements

J. W. Hardy, *Proc. Sac Peak Conf., "Solar Instrumentation: What's Next?"*, 421-433 (1981)

Active Optics - Don't Build a Telescope Without It!

J. W. Hardy, *Proc. SPIE*, 332, 252-259 (1982)

Feasibility of Adaptive Telescope with Laser Probe

R. Foy, A. Labeyrie, *Astron. Astrophys.*, 152, L29-L31 (1985)

NOAO Infrared Adaptive Optics Program I: General Description

J. M. Beckers, F. Roddier, P. Eisenhardt, L. Goad, K. Shu, *Proc. SPIE*, 628, 290-297 (1986)

Adaptive Optics for the VLT

F. Merkle, *Proc. ESO Workshop*, 24, "Second Workshop on the ESO Very Large Telescope", 443-446 (1986)

NOAO Infrared Adaptive Optics Program III: Criteria for the Wavefront Sensor Selection

L. Goad, F. Roddier, J. M. Beckers, P. Eisenhardt, *Proc. SPIE*, 628, 305-313 (1986)

NOAO Infrared Adaptive Optics Program IV: IR Background Speckle Noise Induced by Adaptive Optics in Astronomical Telescope

F. Roddier, P. Eisenhardt, *Proc. SPIE*, 628, 314-322 (1986)

Active Stabilization in Stellar Interferometry (ASSI): State of the Art at Cerga/I2T

L. Dame, M. Faucherre, G. Bourdet, Y. Rabbia, F. Vakili, G. Schumacher, Ph. Boutry, M. Decaudin, D. Dube, G. Jegoudez, H. Lagardere, J. -P. Maillard, B. Moreau, G. Terrier, *Proc. ESA Workshop, "Optical Interferometry in Space"*, (Addendum to Proceedings), 11 (1987)

Performances of an Actively Stabilized Interferometer (ASSI): Faint Magnitudes, Low Fringe Contrast Measurements and Operationality

L. Dame, M. Faucherre, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 205-216 (1987)

Electronically Agile Multiple Aperture Imager Receiver

P. D. Henshaw, D. E. B. Lees, *Proc. SPIE*, 828, 134-139 (1987)

Curvature Sensing; A New Wavefront Sensing Method

F. Roddier, C. Roddier, National Optical Astronomy Observatories; N. Roddier, Univ. of Arizona, *Proc SPIE*, 976, 203 (1988)

High Resolution Imaging in the Infrared Using Adaptive Optics

J. M. Beckers, *Proc. Workshop, "Towards Understanding Galaxies at Large Redshift"* (in press)

Adaptive Optics Prototype System for IR Astronomy II: First Observing Results

P. Kern, P. J. Lena, G. Rousset, F. Merkle, F. Rigaut, *Proc. S.P.I.E.*, 1237, in press (1990)

Atmospheric Wavefront Simulation and Zernike Polynomials

N. Roddier, *Proc. S.P.I.E.*, 1237, in press (1990)

Utility of Partial Adaptive Optics for Visible Light Astronomy

J. M. Beckers, *Proc. S.P.I.E.*, 1236, in press (1990)

Stellar Image Stabilization Using Piezo-Driven Active Mirrors

J. V. Major, A. P. Doel, C. N. Dunlop, R. M. Myers, A. Purvis, M. G. Thompson, *Proc. S.P.I.E.*, 1236, in press (1990)

Adaptive Optics Prototype System for IR Astronomy 1: System Description

F. Merkle, J.-P. Gaffard, F. Rigaut, C. Boyer, P. Kern, P. J. Lena, P. Gigan, J. Fontanella, G. Rousset, *Proc. S.P.I.E.*, 1237, in press (1990)

Adaptive Optics: Dither Optimization Method in an Adaptive Optic Modal Control

P. Hirel, J. Lamard, *Proc. S.P.I.E.*, 1237, in press (1990)

Adaptive Optics: Effect of Sampling Rate and Time Lags on the Closed Loop Bandwidth

J.-P. Gaffard, C. Boyer, *Proc. S.P.I.E.*, 1237, in press (1990)

Adaptive Optics: A Bimorph Mirror for Wavefront Correction

P. Jagourel, M. Sechaud, Y. Madec, *Proc. S.P.I.E.*, 1237, in press (1990)

Adaptive Optics: Interaction Matrix Measurements and Realtime Control Algorithms for the COME-ON Project

C. Boyer, V. Michau, G. Rousset, *Proc. S.P.I.E.*, 1237, in press (1990)

Adaptive Optical Imaging for Extended Objects

Y. Liu, J. G. Walker, *Proc. S.P.I.E.*, 1237, in press (1990)

Telescope Phasing by Simulated Annealing

E. N. Ribak, J. Adler, S. G. Lipson, *Proc. S.P.I.E.*, 1237, in press (1990)

9. INSTRUMENTATION, TECHNIQUES AND FACILITIES:

Photoelectric Fringe Strength Measurement

W. I. Beavers, W. D. Swift, *Appl. Opt.*, 7, 1975-1979 (1968)

A Quantitative Fringe Detector for Stellar Interferometry

J. L. Elliot, I. S. Glass, *A. J.*, 75, 1123-1132 (1970)

Speckle Interferometer for 0.02 Arc Sec Stellar Resolution

A. Labeyrie *Proc. ESO/CERN Conference, "Auxillary Instrumentation for Large Telescopes"*, 389-392 (1972)

On Line Digital Correlation of Photon Counting TV Images for Stellar Interferometry

A. Blazit, L. Koechlin, J. L. Oneto, *"Image Processing Techniques in Astronomy"*, D. Reidel (Holland) (1975)

Lock-in Image Subtraction: Detectability of Circumstellar Planets with the Large Space Telescope

D. Bonneau, M. Josse, A. Labeyrie, *"Image Processing Techniques in Astronomy"*, D. Reidel (Holland) (1975)

How to Build a Speckle Interferometer

A. M. Schneiderman, D. P. Karo, *Proc. SPIE*, 75, 70-82 (1976)

Speckle Interferometry with a Linear Digicon Detector

G. D. Schmidt, J. R. P. Angel, R. Harms, *P. A. S. P.*, 89, 410-414 (1977)

An Online Digital Autocorrelator for Speckle Interferometry

P. R. Vokac, *Proc. SPIE*, 119, 223-231 (1977)

The Use of a CCD in the Reduction of Speckle Interferometry Data

C. L. Davies, *Proc. Conf., "Photoelectronic Imaging Devices"*, Academic Press, England (1978)

Measurements of Atmospheric Isoplanatism Using Speckle Interferometry

P. Nisenson, R. V. Stachnik, *J. Opt. Soc. Am.*, 68, 169-175 (1978)

Post-Detection Interferometer Image Processing

A. Labeyrie, *Proc. ESO/CERN Conf., "Optical Telescopes of the Future"*, 469-473 (1978)

Speckle Interferometry I: The Steward Observatory Speckle Camera

G. Hubbard, E. K. Hege, M. Reed, P. Strittmatter, N. Woolf, *A. J.*, 84, 1437-1442 (1979)

Kitt Peak Speckle Camera

J. B. Breckinridge, H. A. McAlister, W. G. Robinson, *Appl. Opt.*, 18, 1034-1041 (1979)

Standing Wave and Pellicle: A Possible Approach to Very Large Space Telescope

A. Labeyrie, *Astron. Astrophys.*, 77, L1-L2 (1979)

An Intensified Event-detecting Television System for Astronomical Speckle Interferometry

E. K. Hege, E. N. Hubbard, P. A. Strittmatter, *Proc. SPIE*, 264, 29-33 (1980)

Optical Interferometer with High Frequency Photon Counter

S. Isobe, T. Atsushi, M. Noguchi, T. Hirayama, *Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s"*, 984-998 (1980)

Microprocessors and Large Telescope Arrays

J. Oneto, *Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s"*, 976-983 (1980)

Technical Performances of Spherical Concrete Telescopes

F. Vakili, A. Glentzlin, *Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s"*, 1013-1019 (1980)

Split-band Interferometers

G. J. M. Aitken, *Opt. Comm.*, 40, 5-9 (1981)

Coherence and Interferometry through Optical Fibers

C. Froehly, *Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths"*, 285-293 (1981)

The Steward Observatory Speckle Interferometry System

E. K. Hege, P. A. Strittmatter, W. J. Cocke, *Proc. ICO-12 Conf., "Current Trends in Optics"*, 134 (1981)

On the Influence of Scanning Speed in Turbulence Degraded One-dimensional Images

G. Lund, F. Martin, C. Aime, *J. Optics (Paris)*, 12, 207-215 (1981)

An Infrared Speckle Interferometer

C. Perrier, *The Messenger*, 25, 26-29 (1981)

Two-dimensional Infrared Speckle Interferometry with a 32x32 InSb Charge-injection Device (CID) Array

F. Sibille, P. Lena, A. Chelli, D. Stefanovitch, *Proc. SPIE*, 331, 26-28 (1982)

Application of Infrared Arrays to Speckle Interferometry

F. Sibille, D. Stefanovitch, A. Chelli, *Proc. Second ESO Infrared Workshop*, 207-213 (1982)

The Steward Observatory Speckle Interferometry System

E. K. Hege, E. N. Hubbard, P. A. Strittmatter, W. J. Cocke, *Opt. Acta*, 29, 701-715 (1982)

Measurements of Photon Statistics with a Nanosecond Resolution

D. Dravins, *Proc. IAU Coll. #67, "Instrumentation for Astronomy with Large Optical Telescopes"*, 229-237 (1982)

A Real-Time Photoelectron Event-Detecting Video System

R. H. Macklin, E. K. Hege, P. A. Strittmatter, *Proc. SPIE*, 359, 135 (1982)

Low Noise Imaging Photon Counter for Astronomy

L. N. Mertz, T. D. Tarbell, A. Title, *Appl. Opt.*, 21, 628-634 (1982)

A New Two-Dimensional Photon Camera

C. Papaliolios, L. Mertz, *Proc. SPIE*, 331, 360-365 (1982)

Speckle Interferometry Using a Hardwired Real-time Autocorrelator

J. C. Hebden, B. L. Morgan, H. A. Vine, *Proc. SPIE*, 445, 477-483 (1983)

High-speed Digital Signal Processing for Speckle Interferometry

E. K. Hege, W. J. Cocke, P. A. Strittmatter, S. P. Worden, *Proc. SPIE*, 445, 469-476 (1983)

Digital Recording on Video Cassette

S. Ebstein, *Rev. Sci. Instrum.*, 54, 883-885 (1983)

Polarizing Auxiliary Instrumentation and Astrophysical Goals for Optical Interferometry

F. Vakili, *Proc. SPIE*, 445, 484-489 (1983)

The Imperial College System for Photon Even Counting (SPEC)

R. W. Airey, D. J. Lees, B. L. Morgan, M. J. Traynar, *Adv. E. E. P.*, 64 (1984)

16m Large Slit Aperture Telescope for Very High Angular Resolution Astronomy

R. G. Petrov, C. Aime, J. Borgnino, F. Martin, G. Ricort, *Proc. IAU Coll. #79, "Very Large Telescopes, Their Instrumentation and Programs"*, 295-308 (1984)

Speckle Imaging with the PAPA Detector

C. Papaliolios, P. Nisenson, S. Ebstein, *Appl. Opt.*, 24, 287-292 (1985)

A Fiber-Linked Version of Project TRIO

P. Connes, C. Froehly, P. Facq, *Proc. ESA Colloq., "Kilometric Optical Arrays in Space"*, 49-62 (1985)

Real Time Signal Processing Requirements for Diffraction Limited Optical Imaging

E. K. Hege, J. C. Christou, *Proc. Conf., "The Use of Supercomputers in Observational Astronomy"* (1985)

First Results from the New GSU CCD Speckle Camera

W. J. Hartkopf, *Proc. IAU Symposium #109, "Astrometric Techniques"*, 301 (1986)

Speckle Interferometry at Imperial College

B. L. Morgan, C. Standley, H. A. Vine, *Proc. SPIE*, 627, 805-813 (1986)

A Photon-camera Star Tracker for Stellar Interferometry

L. D. Clark, Jr, M. Shao, M. Colavita, *Proc. SPIE*, 627, 838-845 (1986)

New High Resolution Phase Conjugated Optical Correctors for Diffraction Limited Application

L. Dame, *Proc. SPIE*, 679, 177-180 (1986)

Real-time Amplitude and Phase Integration for Diffraction-limited Imaging: Discrete Photon Case

E. K. Hege, P. R. Vokac, *Proc. SPIE*, 627, 780-786 (1986)

A Photon-camera Star Tracker for Stellar Interferometry

L. D. Clark, Jr, M. Shao, M. Colavita, *Proc. SPIE*, 627, 838-845 (1986)

New High Resolution Phase Conjugated Optical Correctors for Diffraction Limited Application

L. Dame, *Proc. SPIE*, 679, 177-180 (1986)

A High Precision Telescope Pointing System

W. C. Danchi, A. Arthur, R. Fulton, M. Peck, B. Sadoulet, E. C. Sutton, C. H. Townes, R. H. Weitzman, *Proc. SPIE*, 628, 422-428 (1986)

A New Product for Photon-limited Imaging

T. Gonsiorowski, *Proc. SPIE*, 627, 626-630 (1986)

ESO Infrared Specklegraph

C. Perrier, *The Messenger*, 45, 29-32 (1986)

Increase of Telescope Resolution with Time Selection and an Image Forming Stellar Interferometer

J. R. Platt, (*unknown*) (1986)

Efficient Method of Support Reduction

B. J. Brames, *Opt Commun.*, 64, 333-337 (1987)

The Multi-spectral Fringe Detector for the Mk III Astrometric Interferometer

M. Colavita, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 125-128 (1987)

Milliarcsecond Ground-based Imaging with Single Telescopes

C. A. Haniff, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 171-174 (1987)

High Angular Resolution with Imaging Array Detectors

P. Lena, *Proc. Hawaii Workshop, "Ground-based Astronomical Observations with Infrared Array Detectors"* (1987)

Aperture Synthesis in Space: Technical Problems

D. Morancais, P. Roussel, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 177-188 (1987)

Groundbased High Resolution Imaging Laboratory (GHRIL)

J. E. Noordam, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 223-224 (1987)

ESA: Space Station Based Interferometry

H. Olthof, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 93-94 (1987)

ESA: Technological Activities Related to Optical Interferometry

P. Roussel, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 95-102 (1987)

Single-mode Fiber Optics in a Long-baseline Interferometer

S. B. Shaklan, F. Roddier, *Appl. Opt.*, 26, 2159-2163 (1987)

Redeployment of the MMT: A Comounted Interferometric Imaging Array

E. K. Hege, *Proc. ESO Conf. and Workshop #30, Very Large Telescopes and Their Instrumentation, 1*, 805 (1988)

Interferometry with the Columbus Telescope: Design Considerations Based on MMT Experience and Imaging Simulations

D. W. McCarthy Jr., E. K. Hege, J. D. Freeman, D. R. Blanco, J. C. Sjogren, C. C. Janes, J. W. Montgomery, S. B. Skaklan, *Proc. ESO Conf. and Workshop #30, Very Large Telescopes and Their Instrumentation, 1*, 787 (1988)

The Amplitude Interferometry, Speckle Interferometry and Laser Correlography Systems: A Sensor System Comparison

R. H. Pohle, *ARPA Order #1443*

Coupling Starlight into Single-mode Fiber Optics

S. B. Shaklan, F. Roddier, *Appl. Opt.* (in press)

E10

Site Selection for Optical Interferometry

D. L. Walters, *Proc. S.P.I.E., 1237*, in press (1990)

E10

Description of the USNO Astrometric Interferometer

J. A. Hughes, *Proc. S.P.I.E., 1237*, in press (1990)

E10

Multiple Telescope Optical Interferometric Array

H. A. McAlister, W. G. Bagnuolo, Jr., A. K. Garrison, *Proc. S.P.I.E., 1237*, in press (1990)

E10

Control and Data Acquisition with an IR Michelson Interferometer

J. A. Benson, A. Patel, *Proc. S.P.I.E., 1237*, in press (1990)

E10

Design Considerations for Very Long Baseline Fringe-Tracking Interferometers

M. M. Colavita, *Proc. S.P.I.E., 1237*, in press (1990)

E10

Use of Laser Metrology Optical Truss for Monitoring Baseline Motion

B. E. Hines, M. Shao, M. M. Colavita, *Proc. S.P.I.E., 1237*, in press (1990)

E10

IOTA Interferometer Project: Plans, Engineering, and Laboratory Results

R. D. Reasenberg, *Proc. S.P.I.E., 1237*, in press (1990)

E10

Considerations of Thermal and Mechanical Stability for IOTA

N. P. Carleton, *Proc. S.P.I.E., 1237*, in press (1990)

E10

Spectral Dispersion and Fringe Detection in IOTA

W. A. Traub, M. G. Lacasse, N. P. Carleton, *Proc. S.P.I.E., 1237*, in press (1990)

E10

Smithsonian Astrophysical Observatory Delay Line and Movable Baseline Design Experience

P. Cheimets, *Proc. S.P.I.E., 1237*, in press (1990)

E10

Passive Interspectroscopy

W. G. Bagnuolo, Jr., K. W. Kamper, *Proc. S.P.I.E.*, 1237, in press (1990)

C10

SO/RADC Intensified Digital Video System for Speckle Imaging

E. K. Hege, R. H. Cromwell, J. B. Rill, P. R. Vokac, *Proc. S.P.I.E.*, 1237, in press (1990)

C10

Experimental Recovery of 2-D Spatial Coherence Modulus

S. M. Ebstein, *Proc. S.P.I.E.*, 1237, in press (1990)

C10

Noise Bias Correction of Power Spectra from Image Amplitude Detectors

N. V. Strobel, E. K. Hege, G. Eichhorn, *Proc. S.P.I.E.*, 1237, in press (1990)

C10

OpC: a 2-D Interactive Image Calculator

R. Watkins, E. K. Hege, J. Peterson, *Proc. S.P.I.E.*, 1237, in press (1990)

C10

Automatic Focusing and Coalignment with a Birefringent Lens

W. D. Martin, E. K. Hege, F. J. Roddier, *Proc. S.P.I.E.*, 1237, in press (1990)

C10

Scene Imaging and Spectroscopy Using a Spatial Spectral Interferometer

J. A. Jamieson, M. Frayman, *Proc. S.P.I.E.*, 1237, in press (1990)

C10

MMT Optics Support Structure: Performance for Interferometric Imaging

M. Gheselka, E. K. Hege, *Proc. S.P.I.E.*, 1237, in press (1990)

C10

Laboratory Experiments on Fringe Pattern Acquisition and Stabilization

L. Dame, D. Beal, B. G. Moreau, E. Prieto, B. Sorrente, *Proc. S.P.I.E.*, 1237, in press (1990)

C10

Optical Recombination Approach of the Solar UV Network

L. Dame, B. G. Moreau, *Proc. S.P.I.E.*, 1237, in press (1990)

C10

High Dynamic Image Reconstruction with the Solar UV Network

L. Dame, T. Cornwell, *Proc. S.P.I.E.*, 1237, in press (1990)

C10

Variations on a Hartmann Theme

F. J. Roddier, *Proc. S.P.I.E.*, 1237, in press (1990)

D. ASTRONOMICAL OBSERVATIONS (chronological order)

- 1. Stellar Sources*
- 2. The Sun*
- 3. Planets/Asteroids*
- 4. Infrared Observations*

1. STELLAR SOURCES:

Application of Michelson's Interferometer Method to the Measurement of Close Double Stars
J. A. Anderson, *Ap. J.*, 51, 263-275 (1920)

Measurement of the Diameter of Alpha Orionis with the Interferometer
A. A. Michelson, F. G. Pease, *Ap. J.*, 53, 249-259 (1921)

Apparent Angular Sizes of Discrete Radio Sources
R. Hanbury-Brown, R. C. Jennison, M. K. Das Gupta, *Nature*, 170, 1061-1063 (1952)

A Test of a New Type of Stellar Interferometer on Sirius
R. Hanbury-Brown, R. Q. Twiss, *Nature*, 178, 1046-1048 (1956)

Interferometry of the Intensity Fluctuations in Light. III. Applications to Astronomy
R. Hanbury-Brown, R. Q. Twiss, *Proc. Roy. Soc. A*, 248, 199-221 (1958)

Interferometry of the Intensity Fluctuations in Light. IV. A Test of an Intensity Interferometer on Sirius
R. Hanbury-Brown, R. Q. Twiss, *Proc. Roy. Soc. A*, 248, 222-237 (1958)

Interferometer Observation of Binary Stars
W. S. Finsen, *A. J.*, 69, 319-324 (1964)

A Preliminary Measurement of the Angular Diameter of Alpha Lyrae
R. Hanbury-Brown, C. Hazard, J. Davis, L. R. Allen, *Nature*, 201, 1111-1112 (1964)

Measurement of Stellar Diameters
R. Hanbury-Brown, *Ann. Rev. Astron. Astrophys.*, 6, 1-38 (1968)

The Angular Diameter and Effective Temperature of Zeta Puppis
J. Davis, D. C. Morton, L. R. Allen, R. Hanbury-Brown, *M. N. R. A. S.*, 150, 45-54 (1970)

A Study of Gamma 2 Velorum with a Stellar Intensity Interferometer
R. Hanbury-Brown, J. Davis, D. Herbison-Evans, L. R. Allen, *M. N. R. A. S.*, 148, 103-117 (1970)

A Study of Alpha Virginis with an Intensity Interferometer
D. Herbison-Evans, *M. N. R. A. S.*, 151, 161-176 (1971)

The Determination of Angular Diameters of Stars
J. Davis, *"Highlights of Astronomy"*, 2, 713-720 (1971)

Speckle Interferometry: Diffraction Limited Measurements of Nine Stars with the 200-inch Telescope
D. Y. Gezari, A. Labeyrie, R. V. Stachnik, *Ap. J.*, 173, L1-L5 (1972)

Speckle Interferometry Gives Holograms of Multiple Star Systems
R. H. T. Bates, P. T. Gough, P. J. Napier, *Astron. and Astrophys.*, 22, 319-320 (1973)

Heterodyne Detection of Arcturus at 10.6 Microns

B. de Batz, P. Granes, J. Gay, A. Journet, *Nature*, 245, 8 (1973)

Speckle Interferometry: Color Dependent Limb Darkening Evidence on Alpha Orionis and Omicron Ceti

D. Bonneau, A. Labeyrie, *Ap. J.*, 181, L1-L4 (1973)

Mesures Interferometriques des Diametres Apparents Stellaires

M. Cagnet, *Opt. Comm.*, 8, 430-434 (1973)

Four Stellar Diameter Measurements by a New Technique, Amplitude Interferometry

D. G. Currie, S. L. Knapp, K. M. Liewer, *Ap. J.*, 187, 131-134 (1974)

The Angular Diameters of 32 Stars

R. Hanbury-Brown, J. Davis, L. R. Allen, *M. N. R. A. S.*, 167, 121-136 (1974)

An Attempt to Detect a Corona Around Beta Orionis with an Intensity Interferometer Using Linearly Polarized Light

R. Hanbury-Brown, J. Davis, L. R. Allen, *M. N. R. A. S.*, 168, 93-100 (1974)

Observations Interferometriques au Mont Palomar

A. Labeyrie, *Nouv. Rev. Optique*, 5, 141-151 (1974)

Speckle Interferometry. III. High-Resolution Measurements on Twelve Close Binary Systems

A. Labeyrie, D. Bonneau, R. V. Stachnik, D. Y. Gezari, *Ap. J.*, 194, L147-L151 (1974)

The Structure of Radio Sources 3C 273B and 3C 84 Deduced from the "Closure" Phases and Visibility Amplitudes Observed with Three-element Interferometers

A. E. Rogers, H. F. Hinteregger, A. R. Whitney, C. C. Counselman, I. I. Shapiro, J. J. Wittels, W. K. Klemperer, W. W. Warnock, T. A. Clark, L. K. Hutton, G. E. Marandino, B. O. Ronnang, O. E. Rydbeck, A. E. Niell *Ap. J.*, 193, 293-301 (1974)

Interference Fringes Obtained on Vega with Two Optical Telescopes

A. Labeyrie, *Ap. J.*, 196, L71-L75 (1975)

Interferometric Measurements of Binary Stars

W. C. Wickes, *A. J.*, 80, 655-657 (1975)

Orbits and Masses of Hyades Visual Binaries

W. C. Wickes, *A. J.*, 80, 1059-1064 (1975)

Stellar Disk Diameter Measurements by Amplitude Interferometry

D. G. Currie, *Tech. Rep.*, 76-125., University of Maryland (1976)

Speckle Interferometry on the 2.5 m Isaac Newton Telescope

D. R. Beddoes, J. C. Dainty, B. L. Morgan, R. J. Scaddan, *J. Opt. Soc. Am.*, 66, 1247-1251 (1976)

On the Power Spectrum of the Solar Granulation at High Wavenumbers

B. F. Kinahan, *Ap. J.*, 209, 282-293 (1976)

Digital Image Reconstruction Applied to Alpha Orionis

C. R. Lynds, S. P. Worden, J. W. Harvey, *Ap. J.*, 207, 174-180 (1976)

Speckle Interferometry of Eta Orionis

H. A. McAlister, *P. A. S. P.*, 88, 957-959 (1976)

Digital Restoration of an Image of Betelgeuse

M. J. McDonnell, R. H. T. Bates, *Ap. J.*, 208, 443-452 (1976)

Digital Analysis of Speckle Photographs: The Angular Diameter of Arcturus

S. P. Worden, *P. A. S. P.*, 88, 69-72 (1976)

Reconstructed Images of Alpha Orionis Using Stellar Speckle Interferometry

S. P. Worden, C. R. Lynds, J. W. Harvey, *J. Opt. Soc. Am.*, 66, 1243-1246 (1976)

Speckle Interferometry of some Bright Stars with the 6-Meter Telescope

Y. Y. Balega, N. A. Tikhonov, *Sov. Astron. Lett.*, 3, 272-273 (1977)

Premiers Resultats d'Observation a l'Interferometre a Deux Telescope

A. Blazit, D. Bonneau, L. Koechlin, *C. R. Acad. Sc. (Paris)*, 285 B, 149-152 (1977)

The Digital Speckle Interferometer: Preliminary Results on 59 Stars and 3C 27

A. Blazit, D. Bonneau, L. Koechlin, A. Labeyrie, *Ap. J.*, 214, L79-L84 (1977)

The Angular Diameters of Capella A and B from Two-Telescope Interferometry

A. Blazit, D. Bonneau, M. Josse, L. Koechlin, A. Labeyrie, J. L. Oneto, *Ap. J.*, 217, L55-L57 (1977)

Strong TiO-Related Variations in the Diameters of Mira and R Leonis

A. Labeyrie, L. Koechlin, D. Bonneau, A. Blazit, R. Foy, *Ap. J.*, 218, L75-L78 (1977)

Speckle Interferometry of the Hyades Spectroscopic Binary 51 Tauri

H. A. McAlister, *Ap. J.*, 212, 459-461 (1977)

Speckle Interferometric Measurement of Binary Stars I

H. A. McAlister, *Ap. J.*, 215, 159-165 (1977)

Spatial Heterodyne Interferometry of VY Canis Majoris, Alpha Orionis, Alpha Scorpii and R Leonis at 11 Microns

E. C. Sutton, J. W. V. Storey, A. L. Betz, C. H. Townes, D. L. Spears, *Ap. J.*, 217, L97-L100 (1977)

Further Speckle Interferometric Studies of Alpha Orionis

M. S. Wilkerson, S. P. Worden, *A. J.*, 82, 642-645 (1977)

Observations of Binary Stars by Speckle Interferometry I

B. L. Morgan, D. R. Beddoes, R. J. Scaddan, J. C. Dainty, *M. N. R. A. S.*, 183, 701-710 (1978)

The Mapping of Compact Sources from VLBI Data

A. C. Readhead, P. N. Wilkinson, *Ap. J.*, 223, 25-36 (1978)

Diffraction-Limited Observations of Binary Star Systems

R. J. Scaddan, B. L. Morgan, J. C. Dainty, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"*, Paper 17 (1978)

Speckle Interferometry Measurements of 12 Binary Stars

G. Weigelt, *Astron. Astrophys.*, 68, L5-L6 (1978)

Speckle Holography Measurements of the Stars Zeta Cancri and ADS 3358

G. Weigelt, *Appl. Opt.*, 17, 2660-2662 (1978)

Speckle Interferometric Measurements of Binary Stars III

H. A. McAlister, K. A. DeGioia, *Ap. J.*, 228, 493-496 (1979)

Speckle Interferometric Measurements of Binary Stars. IV

H. A. McAlister, *Ap. J.*, 230, 497-501 (1979)

Orbital Inclination and Masses Newly Determined from the Triple System Algol

D. Bonneau, *Astron. Astrophys.*, 80, L11-L12 (1979)

Angular Dimensions of Accreting Young Stars

A. Chelli, P. Lena, F. Sibille, *Nature*, 278, 143-146 (1979)

Detection d'un Effet de Phase a l'Interferometre du CERGA, Application au Mouvement Orbital de Capella

L. Koechlin, D. Bonneau, F. Vakili, *Astron. Astrophys.*, 80, L13-L14 (1979)

Solar Seeing and the Statistical Properties of the Photospheric Solar Granulation 3. Solar Speckle Interferometry

G. Ricort, C. Aime, *Astron. Astrophys.*, 76, 324-335 (1979)

A Narrabri Binary Star Resolved by Speckle Interferometry

W. J. Tango, J. Davis, *Proc. Astron. Soc., Australia*, 3, 323-324 (1979)

Applications of Digital and Optical-Digital Stellar Speckle Interferometry

G. Baier, J. Ebersberger, A. Lohmann, G. Weigelt, *Proc. SPIE*, 264, 58-63 (1980)

Speckle Interferometric Observations of Binary Systems with the Haute-Provence 1.93 m Telescope

D. Bonneau, R. Foy, *Astron. Astrophys.*, 86, 295-298 (1980)

Speckle Interferometric Measurements of Binary Stars

D. Bonneau, R. Blazit, R. Foy, A. Labeyrie, *Astron. Astrophys. Suppl. Ser.*, 42, 185-188 (1980)

Observational Speckle Interferometry

D. Bonneau, M. Faucherre, L. Koechlin, F. Vakili, *Proc. SPIE*, 243, 80-82 (1980)

The Diameter of Chi Cygni Given by Speckle Interferometry

J. C. Christou, S. P. Worden, *A. J.*, 85, 302-304 (1980)

Speckle Interferometry of the Spectroscopic Binary 17 Ksi Cephei A

H. A. McAlister, *Ap. J.*, 236, 522-525 (1980)

Speckle Interferometric Measurements of Binary Stars. V

H. A. McAlister, F. C. Fekel, *Ap. J. Suppl. Ser.*, 43, 327-337 (1980)

Speckle Interferometry of the Spectroscopic/Astrometric Binary Chi Draconis

H. A. McAlister, *A. J.*, 85, 1265-1269 (1980)

Observations of Binary Stars by Speckle Interferometry II

B. L. Morgan, G. K. Beckman, R. J. Scaddan, *M. N. R. A. S.*, 192, 143-151 (1980)

Effective Temperatures of Late-Type Stars: the Field Giants from K0 to M6

S. T. Ridgway, R. R. Joyce, N. M. White, R. F. Wing, *Ap. J.*, 235, 126-137 (1980)

The Diameters of Vesta and Ceres Measured by Interferometry

A. A. Tokovinin, *Sov. Astron. Lett.*, 6, 100-101 (1980)

The Angular Diameters of Supergiant Stars from Speckle Interferometry

G. L. Welter, S. P. Worden, *Ap. J.*, 242, 673-683 (1980)

The Size of a Wolf-Rayet Star's Dust Shell Measured by Speckle Interferometry

D. A. Allen, J. R. Barton, P. T. Wallace, *M. N. R. A. S.*, 196, 797-800 (1981)

Imaging of Star Clusters From Speckle Interferometry

J. C. Christou, *Opt. Comm.*, 37, 331-334 (1981)

Starspots on V711 Tauri (HR 1099)

J. D. Dorren, M. J. Siah, E. F. Guinan, G. P. McCook, *A. J.*, 86, 572-582 (1981)

Giant Stars Angular Diameters Measurements with the Stellar Interferometer at CERGA

M. Faucherre, D. Bonneau, *Proc. ESO Conf.*, "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths", 247-251 (1981)

Speckle Interferometry Observations of the Triple QSO PG 1115+08

E. K. Hege, E. N. Hubbard, P. A. Strittmatter, S. P. Worden, *Ap. J.*, 248, L1-L3 (1981)

Optical Observations of Active Galaxies and Quasars at High Resolution

M. -H. Ulrich, *Proc. ESO Conf.*, "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths", 411-422 (1981)

High Angular Resolution Observation of Single and Close Binary Stars with the CERGA Interferometer

F. Vakili, D. Bonneau, L. Koechlin, *Proc. ESO Conf.*, "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths", 399-404 (1981)

Speckle Interferometry, Speckle Holography, Speckle Spectroscopy, and Reconstruction of High-resolution Images from ST Data

G. Weigelt, *Proc. ESO Conf.*, "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths", 95-114 (1981)

The Apparent Orbit of Capella

H. A. McAlister, *A. J.*, 86, 795-799 (1981)

Speckle Interferometry of Tau Persei

H. A. McAlister, *A. J.*, 86, 1397-1400 (1981)

Binary Stars Unresolved by Speckle Interferometry II

H. A. McAlister, E. M. Hendry, *P. A. S. P.*, 93, 221-224 (1981)

Solar Granulation Study in Partial Eclipse Conditions Using Speckle Interferometric Techniques

G. Ricort, C. Aime, F. Deubner, W. Mattig, *Astron. Astrophys.*, 97, 114-121 (1981)

Observations of the Brightness Structure of Alpha Orionis

G. Ricort, C. Aime, J. Vernin, S. Kadiri, *Astron. Astrophys.*, 99, 232-238 (1981)

Speckle Interferometry of the Spectroscopic Binary 94 Aquarii A

H. A. McAlister, W. J. Hartkopf, *P. A. S. P.*, 94, 831-834 (1982)

Speckle Interferometric Measurements of Binary Stars. VI

H. A. McAlister, E. M. Hendry, *Ap. J. Suppl. Ser.*, 48, 273-278 (1982)

Speckle Interferometric Measurements of Binary Stars VII

H. A. McAlister, E. M. Hendry, *Ap. J. Suppl. Ser.*, 49, 267-272 (1982)

Masses and Luminosities for the Giant Spectroscopic/Speckle Interferometric Binaries Phi Cygni and Gamma Persei

H. A. McAlister, *A. J.*, 87, 563 (1982)

Speckle Observations of the Nucleus of NGC 1068

J. Meaburn, B. L. Morgan, H. Vine, A. Pedlar, R. Spencer, *Nature*, 296, 331-334 (1982)

Speckle Observations of R136a

J. Meaburn, J. C. Hebden, B. L. Morgan, H. Vine, *M. N. R. A. S.*, 200, 1P-5P (1982)

The Application of Bates' Algorithm to Binary Stars

W. G. Bagnuolo, *M. N. R. A. S.*, 200, 1113-1122 (1982)

The Angular Diameter of Betelgeuse

Y. Y. Balega, A. Blazit, D. Bonneau, L. Koechlin, R. Foy, A. Labeyrie, *Astron. Astrophys.*, 115, 253-256 (1982)

The Diameter of Mira

D. Bonneau, R. Foy, A. Blazit, A. Labeyrie, *Astron. Astrophys.*, 106, 235-239 (1982)

Infrared Speckle Interferometry, Results, True Image Reconstruction and Instrumental Plan

A. Chelli, C. Perrier, J. -M. Mariotti, *Proc. Second ESO Infrared Workshop*, 153-157 (1982)

Speckle Interferometry of Alpha Ori: Preliminary Results

L. Goldberg, E. K. Hege, E. N. Hubbard, P. A. Strittmatter, W. J. Cocke, *Proc. Second Cambridge Workshop, "Stars, Stellar Systems and the Sun"*, 131 (1982)

Observations of Binary Stars by Speckle Interferometry III

B. L. Morgan, G. K. Beckman, R. J. Scaddan, H. A. Vine, *M. N. R. A. S.*, 198, 817-824 (1982)

Measurements of the Spatial-Temporal Statistics of Stellar Speckle Patterns at Mauna Kea, Hawaii

K. A. O'Donnell, B. J. Brames, J. C. Dainty, *Opt. Comm.*, 41, No. 2, 79 (1982)

Shift-and-add Type Algorithms and their Application to Capella

W. G. Bagnuolo, *Proc. IAU Coll. #62, "Current Techniques in Double and Multiple Star Research"*, (Lowell Obs. Bull. No. 167), 180-184 (1983)

The True Nodal Quadrant of Capella

W. G. Bagnuolo, H. A. McAlister, *P. A. S. P.*, 95, 992 (1983)

Digital Photon-counting Speckle Interferometry

G. Baier, E. Keller, G. Weigelt, *Signal Processing II: Theories and Applications*, H. W. Schussler (Elsevier Sci. Pub. B. V., North Holland, Eurasip) (1983)

Stellar Diameter Measurements by Two-Aperture Interferometry in the Infrared

G. P. Di Benedetto, G. Conti, *Ap. J.*, 268, 309-318 (1983)

Observation of Multiple Stars with the Digital Speckle Interferometer

D. Bonneau, L. Koechlin, *Proc. IAU Coll. #62, "Current Techniques in Double and Multiple Star Research"*, (Lowell Obs. Bull. No. 167), 154-155 (1983)

An Image Reconstruction for Capella with the Steward Observatory/AFGL Intensified Video Speckle Interferometer

W. J. Cocke, E. K. Hege, E. N. Hubbard, P. A. Strittmatter, S. P. Worden, *Proc. IAU Coll. #62, "Current Techniques in Double and Multiple Star Research"*, (Lowell Obs. Bull. No. 167), 180-184 (1983)

Binary Star Observations with the Multi-aperture Amplitude Interferometer D. G. Currie, *Proc. IAU Coll. #62, "Current Techniques in Double and Multiple Star Research"*, (Lowell Obs. Bull. No. 167), 202-216 (1983)

Long Baseline Interferometry and Binary Stars

J. Davis, *Proc. IAU Coll. #62, "Current Techniques in Double and Multiple Star Research"*, (Lowell Obs. Bull. No. 167), 191-201 (1983)

Interferometrie Stellaire: Diametres et Temperatures Effectives de Cinq Geantes

M. Faucherre, D. Bonneau, L. Koechlin, F. Vakili, *Astron. Astrophys.*, 120, 263-268 (1983)

Double Star Measurement with the Cerga Two Telescope Interferometer

L. Koechlin, F. Vakili, D. Bonneau, *Proc. IAU Coll. #62, "Current Techniques in Double and Multiple Star Research"*, (Lowell Obs. Bull. No. 167), 156-157 (1983)

Speckle Interferometric Measurements of Binary Stars. VIII

H. A. McAlister, E. M. Hendry, W. I. Hartkopf, B. G. Campbell, F. C. Fekel, *Ap. J. Suppl. Ser.*, 53, 241-241 (1983)

Speckle Interferometry of the Spectroscopic Binary 94 Aquarii A

H. A. McAlister, W. J. Hartkopf, *P. A. S. P.*, 95, 778 (1983)

Speckle Observations of Eta Carinae

J. Meaburn, J. R. Walsh, J. C. Hebden, B. L. Morgan, H. Vine, *M. N. R. A. S.*, 204, 41P-46P (1983)

Speckle Observations of the Central Star in the Red Rectangle

J. Meaburn, J. R. Walsh, J. C. Hebden, B. L. Morgan, H. Vine, *M. N. R. A. S.*, 205, 53P-56P (1983)

High Angular Resolution Observations of Alpha Orionis with a Rotation Shearing Interferometer

C. Roddier, F. Roddier, *Ap. J.*, 270, L23-L26 (1983)

Spots, Spot-cycles, and Magnetic Fields of Late-type Dwarfs

S. S. Vogt, *Activity in Red-Dwarf Stars*, ed. P. B. Byrne and M. Rodono, 137-156 (1983)

Doppler Imaging of Spotted Stars: Application to the RS Canum Venaticorum Star HR 109

S. S. Vogt, G. D. Penrod, *P. A. S. P.*, 95, 565-576 (1983)

Speckle Interferometry of Hipparcos Link Stars

A. N. Argue, J. C. Hebden, B. L. Morgan, H. Vine, *M. N. R. A. S.*, 206, 669-672 (1984)

Speckle Interferometric Measurements of Binary Stars: II

Y. Y. Balega, D. Bonneau, R. Foy, *Astron. Astrophys. Suppl. Ser.*, 57, 31-36 (1984)

Discovery of Solar System-Size Halos Around Young Stars

S. Beckwith, B. Zuckerman, M. F. Skrutskie, H. M. Dyck, *Ap. J.*, 287, 793-800 (1984)

Observations d'étoiles Doubles par Interferometrie des Tavelures au T2 m du Pic du Mid

D. Bonneau, J. M. Carquillat, J. L. Vidal, *Astron. Astrophys. Suppl. Ser.*, 58, 729-733 (1984)

Binary Stars Unresolved by Speckle Interferometry III.

W. I. Hartkopf, H. A. McAlister, *P. A. S. P.*, 96, 105 (1984)

NGC 2024 No. 2: Infrared Speckle Interferometry and Nature of the Source

D. R. Jiang, C. Perrier, P. Lena, *Astron. Astrophys.*, 135, 249-254 (1984)

Speckle Interferometric Measurements of Binary Stars. IX

H. A. McAlister, W. I. Hartkopf, B. J. Gaston, E. M. Hendry, F. C. Fekel, *Ap. J. Suppl. Ser.*, 54, 251-257 (1984)

Catalog of Interferometric Measurements of Binary Stars 1

H. A. McAlister, W. I. Hartkopf, *1, "Center for High Angular Resolution Astronomy"*, (Atlanta, Georgia, U. S. A.) (1984)

High Angular Resolution Interferometric Observations of Betelgeuse in the Visible

F. Roddier, C. Roddier, M. Karovska, *Proc. UCLA Workshop, "Mass Loss from Red Giants"*, 63 (1984)

On the Upper Limit of the Angular Diameter of Gamma Cassiopeiae with the Two-Telescope Interferometer at CERGA

F. Vakili, P. Granes, D. Bonneau, M. Noguchi, R. Hirata, *Publ. Astron. Soc. Japan*, 36, 231-237 (1984)

Cross Spectrum Techniques Applied to Astronomical Speckle Interferometry

C. Aime, R. Petrov, F. Martin, G. Ricort, J. Borgnino, *Proc. SPIE*, 556, 297-310 (1985)

Speckle Interferometry of the Central Object in the Giant H II Region NGC 360

G. Baier, R. Ladebeck, G. Weigelt, *Astron. Astrophys.*, 151, 61-63 (1985)

Speckle Interferometry of T Tauri Stars and Related Objects

G. Baier, U. Bastian, E. Keller, R. Mundt, G. Weigelt, *Astron. Astrophys.*, 153, 278-280 (1985)

Digital Speckle Interferometry of 72 Binary Stars

Y. Y. Balega, I. I. Balega, *Sov. Astron. Lett.*, 11, 47-52 (1985)

Measuring Stars with High Angular Resolution: Current Status and Future Prospect

J. Davis, *Proc. IAU Symp. #111, "Calibration of Fundamental Stellar Quantities"*, 191-201 (1985)

The Multiple QSO PG1115+08: A Fifth Component?

R. Foy, D. Bonneau, A. Blazit, *Astron. Astrophys.*, 149, L13-L16 (1985)

Measuring Stars with High Angular Resolution: Results from Narrabri Observatory

R. Hanbury-Brown, *Proc. IAU Symp. #111, "Calibration of Fundamental Stellar Quantities"*, 185-192 (1985)

Interferometric Measurements of Binary Stars with the GSU ICCD Speckle Camera,

W. J. Hartkopf, H. A. McAlister, D. J. Hutter, *Bull. Am. Ast. Soc.*, 17, 551 (1985)

Speckle Interferometry of Hipparcos Link Stars - II

J. C. Hebden, B. L. Morgan, C. Standley, H. A. Vine, *M. N. R. A. S.*, 216, 447-451 (1985)

The H Alpha Envelope of Alpha Orionis

E. K. Hege, J. C. Hebden, J. C. Christou, *Proc. Fourth Cambridge Workshop, "Cool Stars, Stellar Systems and the Sun"*, (1985)

Mesures de Diametres a l'Interferometre Optique du CERGA. Developpements et Resultats Recent

L. Koechlin, Y. Rabbia, *Astron. Astrophys.*, 153, 91-98 (1985)

Speckle Observations of the Central Source in the Bipolar Nebula NGC 2346

J. Meaburn, J. R. Walsh, B. L. Morgan, J. C. Hebden, H. Vine, C. Standley, *M. N. R. A. S.*, 213, 35P-38P (1985)

A New Optical Source Associated with T Tauri

P. Nisenson, R. V. Stachnik, M. Karovska, R. W. Noyes, *Ap. J.*, 297, L17-L20 (1985)

An Image Reconstruction of Alpha Orionis

F. Roddier, C. Roddier, *Ap. J.*, 295, L21-L23 (1985)

Interferometric Observations of Double Stars in 1983 and 1984

A. A. Tokovinin, *Astron. Astrophys. Suppl. Ser.*, 61, 483 (1985)

R 136a in the 30 Doradus Nebula Resolved by Holographic Speckle Interferometry

G. Weigelt, G. Baier, *Astron. Astrophys.*, 150, L18-L20 (1985)

The Determination of the Mass of a Magellanic Cloud Planetary Nebula by Speckle Interferometry

M. J. Barlow, B. L. Morgan, C. Standley, H. Vine, *M. N. R. A. S.*, 223, 151-172 (1986)

Small-Scale Structure of the Circumstellar Gas of HL Tauri and R Monocerotis

S. Beckwith, A. I. Sargent, N. Z. Scoville, C. R. Masson, B. Zuckerman, T. G. Phillips, *Ap. J.*, 309, 755-761 (1986)

The Angular Diameter and the Effective Temperature of Arcturus from Michelson Interferometry

G. P. Di Benedetto, R. Foy, *Astron. Astrophys.*, 166, 204-210 (1986)

Speckle Interferometric Measurements of Binary Stars: III

D. Bonneau, Y. Balega, A. Blazit, R. Foy, F. Vakili, J. L. Vidal, *Astron. Astrophys. Suppl. Ser.*, 65, 27-32 (1986)

Fast Scanning Slit Near Infrared Photometry of T Tauri Stars in Close Binaries: Elias 22 and Cham. I

L. Carrasco, A. Chelli, H. Zinnecker, I. Cruz-Gonzales, C. Perrier, *Proc UAI Conf., "V Reunion Regional Latinoamericana de Astronomia de la UIA"* (1986)

Diameter and Limb-Darkening Measures for Alpha Orionis

A. Y. S. Cheng, E. K. Hege, E. N. Hubbard, L. Goldberg, P. A. Strittmatter, W. J. Cocke, *Ap. J.*, 309, 737-744 (1986)

New Determination of the Angular Diameter of Sirius

J. Davis, W. J. Tango, *Nature*, 323, 234-235 (1986)

Speckle Interferometry of Spectroscopic and Hyades Binary Stars

J. Ebersberger, G. P. Weigelt, R. B. Orellana, *Astron. Astrophys. Suppl. Ser.*, 64, 131-133 (1986)

First Measurements of Gamma Cassiopeiae's Hydrogen Envelope

P. Granes, C. Thom, F. Vakili, *Proc. IAU Coll. #92, "Phys. of Be Stars"* (1986)

Two Dimensional Images of Alpha Orionis

J. C. Hebden, J. C. Christou, Y. S. Cheng, E. K. Hege, P. A. Strittmatter, J. M. Beckers, H. P. Murphy, *Ap. J.*, 309, 745-754 (1986)

Speckle Masking Observation of the Central Object in the Giant H II Region NGC 360

K. -H. Hofmann, G. Weigelt, *Astron. Astrophys.*, 167, L15-L16 (1986)

On the Alpha Orionis Triple System

M. Karovska, P. Nisenson, R. W. Noyes, *Ap. J.*, 308, 260-269 (1986)

Resolution of the Halo Binary Mu CAS at Optical Wavelengths

M. Karovska, P. Nisenson, R. W. Noyes, *A. J.*, 92, 898-902 (1986)

Gliese 866 - A Double M Dwarf

C. Leinert, H. Jahreiss, M. Haas, *Astron. Astrophys.*, 164, L29-L31 (1986)

New Observations of Alpha Orionis with a Rotation Shearing Interferometer

F. Roddier, C. Roddier, R. Petrov, F. Martin, G. Ricort, C. Aime, *Ap. J.*, 305, L77-L80 (1986)

Detection of the Lensing Galaxy in PG 1115+08

S. B. Shaklan, E. K. Hege, *Ap. J.*, 303, 605-613 (1986)

Optical Interferometric Measurements of Gamma Cassiopeiae's Envelope in the H Alpha Line

C. Thom, P. Granes, F. Vakili, *Astron. Astrophys.*, 165, L13-L15 (1986)

Eta Carinae Resolved by Speckle Interferometry

G. Weigelt, J. Ebersberger, *Astron. Astrophys.*, 163, L5-L6 (1986)

Angular Diameters of Magellanic Cloud Planetary Nebulae. I. Speckle Interferometry

P. R. Wood, M. S. Bessel, M. A. Dopita, *Ap. J.*, 311, 632-636 (1986)

Probability Imaging of Double and Multiple Stars

C. Aime, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 63-66 (1987)

High Resolution Imaging of the M87 Core

W. G. Bagnuolo, R. W. Chambers, *Nature*, 326, 681-683 (1987)

Aspects of the Erlangen Bispectrum

R. H. T. Bates, *Optik* (1987)

Accurate Angular Diameters and Effective Temperatures for Eleven Giants Cooler than K0 by Michelson Interferometry

G. P. Di Benedetto, Y. Rabbia, *Astron. Astrophys.*, 188, 114-124 (1987)

Speckle Interferometric Measurements of Binary Stars: IV

A. Blazit, D. Bonneau, R. Foy, *Astron. Astrophys. Suppl. Ser.*, 71, 57-62 (1987)

Supernova 1987A in the Large Magellanic Cloud

A. A. Chalabaev, C. Perrier, P. Bouchet, *IAU Circ.*, No. 4389 (1987)

Two Dimensional High Angular Resolution Infrared Imaging of Circumstellar Shells

M. L. Cobb, D. W. McCarthy, J. F. Arens, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 241-244 (1987)

Application of Triple Correlation to One-Dimensional Infrared Speckle Data

J. D. Freeman, J. C. Christou, F. Roddier, D. W. McCarthy, M. L. Cobb, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 47-50 (1987)

The First Images from Optical Aperture Synthesis

C. A. Haniff, C. D. Mackay, D. J. Titterington, D. Sivia, J. E. Baldwin, P. J. Warner, *Nature*, 328, 694-696 (1987)

The H Alpha Chromosphere of Alpha Orionis

J. C. Hebden, A. Eckart, E. K. Hege, *Ap. J.*, 314, 690-698 (1987)

Application of the Knox-Thompson Method to IR Observations

R. R. Howell, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 41-42 (1987)

Supernova 1987A in the Large Magellanic Cloud

M. Karovska, P. Nisenson, R. W. Noyes, C. Papaliolos, *IAU Circ.*, No. 4382 (1987)

Sub Arc Second Imaging of the Galactic Center in the Near Infrared

P. Lacombe, P. Lena, D. Rouan, *Proc. Hawaii Workshop, "Ground-based Astronomical Observations with Infrared Array Detectors"* (1987)

Speckle Interferometric Observations of the Wolf-Rayet Star AS 431 and of Early-type Stars in Cyg OB

M. C. Lortet, A. Blazit, D. Bonneau, R. Foy, *Astron. Astrophys.*, 180, 111-113 (1987)

ICCD Speckle Observations of Binary Stars. I. A Survey for Duplicity Among the Bright Stars

H. A. McAlister, W. I. Hartkopf, D. J. Hutter, M. M. Shara, O. G. Franz, *A. J.*, 93, 183-194 (1987)

ICCD Speckle Observations of Binary Stars. III. A Survey for Duplicity Among High Velocity Stars

P. K. Lu, P. Demarque, W. van Altena, H. A. McAlister, W. I. Hartkopf, *A. J.*, 94, 1318-1326 (1987)

Have Circumstellar Envelopes Been Detected Around Nearby M-dwarfs?

J. -M. Mariotti, C. Perrier, F. Lacombe, *Astron. Astrophys.*, 182, L11-L14 (1987)

Supernova 1987A in the Large Magellanic Cloud

S. Matcher, W. S. P. Meikle, B. Morgan, *IAU Circ.*, No. 4391 (1987)

Supernova 1987A in the Large Magellanic Cloud

S. Matcher, W. S. P. Meikle, B. Morgan, *IAU Circ.*, No. 4394 (1987)

ICCD Speckle Observations of Binary Stars. I. A Survey for Duplicity Among the Bright Stars

H. A. McAlister, W. I. Hartkopf, D. J. Hutter, M. M. Shara, O. G. Franz, *A. J.*, 93, 183-194 (1987)

ICCD Speckle Observations of Binary Stars. II. Measurements During 1982-1985 from the Kitt Peak 4 m Telescope

H. A. McAlister, W. I. Hartkopf, D. J. Hutter, O. G. Franz, *A. J.*, 93, No. 3, 688-723 (1987)

ICCD Speckle Observations of Binary Stars. IV. Measurements During 1986 From the Kitt Peak 4 m Telescope

H. A. McAlister, W. I. Hartkopf, J. R. Sowell, O. G. Franz, *A. J.* (1987)

Magnitude Limit of the Group Delay Fringe Tracking Method for Long Baseline Interferometry

P. Nisenson, W. Traub, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 129-134 (1987)

Detection of a Very Bright Source Close to the LMC Supernova SN 1987A

P. Nisenson, C. Papaliolos, M. Karovska, R. W. Noyes, *Ap. J.*, 320, L15-L18 (1987)

Supernova 1987A in the Large Magellanic Cloud

C. Perrier, *IAU Circ.*, No. 4417 (1987)

Astrophysical Results on Young Stars and Active Objects

C. Perrier, A. Chelli, H. Zinnecker, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 247-250 (1987)

On the Binary Nature of Van Biesbroeck 8

C. Perrier, J. -M. Mariotti, *Ap. J.*, 312, L27-L30 (1987)

Finsen 342 and the Hyades Distance Modulus

D. M. Peterson, R. Solensky, *Ap. J.*, 315, 286-295 (1987)

Submilliarcsecond Imaging of Rotating Stars Using Differential Speckle Interferometry

R. G. Petrov, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 89-92 (1987)

Gamma Persei - Not Over Massive But Over Luminous

D. M. Popper, H. A. McAlister, *A. J.*, 94, 700-711 (1987)

The Alpha Ori Envelope and Its Evolution

C. Roddier, F. Roddier, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 231 (1987)

Image Reconstruction from Rotational Shear Interferograms: Laboratory and Astronomical Results

F. Roddier, C. Roddier, *Proc. SPIE*, 828, 108-113 (1987)

The Orbit of the Speckle and Double-Lined Spectroscopic Binary Chi Draconis

J. Tomkin, H. A. McAlister, W. I. Hartkopf, F. C. Fekel, *A. J.*, 93, 1236 (1987)

Angular Diameters and Fluxes of Magellanic Cloud Planetary Nebulae. II. High-speed Direct Imaging

P. R. Wood, S. J. Heatheringham, M. A. Dopita, D. H. Morgan, *Ap. J.*, 320, 178-181 (1987)

High Angular Resolution Observations of SN1987A

P. Nisenson, M. Karovska, L. Koechlin, C. Papaliolios, C. Standley
Proc. ESO Conf. No. 29, 491 (1988)

Speckle Observations of R136

R. Neri, M. Grewing
Proc. ESO Conf. No. 29, 497 (1988)

Infrared Speckle Interferometric Observations of Young Low-Mass Stars: Recent Results from ESO

H. Zinnecker, C. Perrier, A. Chelli
Proc. ESO Conf. No. 29, 505 (1988)

Binary Star Speckle Photometry. I. The Colors and Spectral Types of the Capella Stars

W. J. Bagnuolo Jr., J. R. Sowell, *Astron. J.*, 96, 1056-1060 (1988)

Multiwavelength Images of α Orionis

J. C. Christou, J. C. Hebden, K. Hege, *Ap. J.*, 327, 894-904 (1988)

Diffraction-Limited Imaging of Alpha Orionis

J. C. Christou, E. K. Hege, J. C. Hebden
Proc. ESO Conf. No. 29, 527 (1988)

The Structure of Circumstellar Shells

J. D. Fix, M. L. Cobb, *Ap. J.*, 329, 290-298 (1988)

Speckle Masking Observation of η Carinae

K. G. Hofmann, G. Weigelt, *Astron. Astrophys.*, 203, L21-122 (1988)

Maximum-likelihood Image Restoration Adapted for Noncoherent Optical Imaging

T. J. Holmes, *J. Opt. Soc. Am. A.*, 5, 666-673 (1988)

Preliminary Angular Diameter Measurements of 24 Stars from the Mark III Optical Interferometer

D. J. Hutter, K. J. Johnston, D. Mozurkewich, R. S. Simon, M. M. Colavita, Pan X. P., M. Shao, B. E. Hines, D. H. Staelin, J. L. Hershey, J. A. Hughes, G. H. Kaplan
Proc. ESO Conf. No. 29, 855 (1988)

Binary Star Orbits from Speckle Interferometry. I. The Hyades Binary Finsen 342 (70 Tauri)

H. A. McAllister, W. I. Hartkopf, W. G. Bagnuolo Jr., J. R. Sowell, O. G. Franz, D. S. Evans,
Astron. J., 96, 1431-1438 (1988)

Preliminary Measurements of Star Positions with the Mark III Stellar Interferometer

D. Mozurkewich, D. J. Hutter, K. J. Johnston, R. S. Simon, M. Shao, M. M. Colavita, D. H. Staelin, B. Hines, J. L. Hershey, J. A. Hughes, G. H. Kaplan, *Astron. J.*, 95, 1269-1277 (1988)

Phase Retrieval Using the Logarithmic Hilbert Transform and the Fourier-series Expansion

N. Nakajima, *J. Opt. Soc. Am. A.*, 5, 257-262 (1988)

AIT-MCP-Speckle Camera Observations of the Multiple-star Cluster R136

R. Neri, M. Grewing, *Astron. Astrophys.*, 196, 338-340 (1988)

Initial Stellar Diameter Measurements with the Mark III Interferometer

M. Shao, M. M. Colavita, B. E. Hines, D. H. Staelin, D. J. Hutter, K. J. Johnston, D. Mozurkewich, R. S. Simon, J. L. Hershey, J. A. Hughes, G. H. Kaplan, *Ap. J.*, 327, 905-910 (1988)

Interferometric Observations of Double Stars in 1985 and 1986

A. A. Tokovinin, R. M. Ismailov, *Astron. Astrophys., Suppl. Ser.*, 72, 563-565 (1988)

Tomographic Imaging of HL Tauri

S. V. W. Beckwith, A. J. Sargent, C. D. Koresko, D. A. Weintraub, *Ap. J.*, 343, 393-399 (1989)

Speckle Imaging of NGC 1068 and NGC 4151 in the [O III] 5007 A Line and Nearby Continuum

S. H. Ebstein, N. P. Carleton, C. Papaliolios, *Ap. J.*, 336, 103-111 (1989)

Binary Star Orbits from Speckle Interferometry. II. Combined Visual/Speckle Orbits of 28 Close Systems

W. I. Hartkopf, H. A. McAlister, *Astron. J.*, 98, 1014-1039 (1989)

Angular Diameter Measurements of 24 Giant and Supergiant Stars from the Mark III Optical Interferometer

D. J. Hutter, K. J. Johnston, D. Mozurkewich, R. S. Simon, M. M. Colavita, Pan, X. P. and M. Shao, B. E. Hines, D. H. Staelin, J. L. Hershey, J. A. Hughes, G. H. Kaplan, *Ap. J.*, 340, 1103-1111 (1989)

Measurements of the Diameter of the Large Magellanic Cloud Supernova SN 1987A
M. Karovska, L. Koehlin, P. Nisenson, C. Papaliolos, C. Standley, *Ap. J.*, 340, 435-442 (1989)

Detection of an Infrared Companion to Haro 6-10
Ch. Leinert, M. Haas, *Ap. J.*, 342, L39-L42 (1989)

ICCD Speckle Observations of Binary Stars. IV. Measurements During 1986-1988 from the Kitt Peak 4 m Telescope
H. A. McAlister, W. I. Hartkopf, J. R. Sowell, E. G. Dombrowski, O. G. Franz, *Astron. J.*, 97, 510-531 (1989)

The Masses and Orbital Parameters of the Nearby M Dwarf Binary Gleise 570 B
J. -M. Mariotti, C. Perrier, A. Duquennoy, P. Duhoux, *Astronomy and Astrophysics*, 89053 (1989)

Diffraction-limited Imaging. II. Optical Aperture-synthesis Imaging of Two Binary Stars
T. Nakajima, S. R. Kulkarni, P. W. Gorham, A. M. Ghez, G. Neugebauer, J. B. Oke, T. A. Prince, A. C. S. Readhead, *Astron. J.*, 97, 1510-1520 (1989)

Multi-wavelength Images of Alpha Orionis
J. C. Christou, J. Hebden, E. K. Hege, *Ap. J.* (in press)

The Binary System HR 6697
R. B. Culver, P. A. Ianna, H. A. McAlister, *A. J.* (in press)

Images of the Envelope of Alpha Orionis
J. C. Hebden, E. K. Hege, A. Eckart, *Proc. IAU Symposium #122, "Circumstellar Matter"* (in press)

Optical Observations of Close Binaries with the Mt. Wilson Interferometer
X. P. Pan, *Proc. S.P.I.E.*, 1237, in press (1990)

Optical Diameters of Stars Measured with the Mt. Wilson Interferometer
D. Mozurkewich, *Proc. S.P.I.E.*, 1237, in press (1990)

Speckle Imaging of Globular Clusters
B. J. Sams III, *Proc. S.P.I.E.*, 1237, in press (1990)

Speckle Interferometry of Candidate Stars for Two Space Telescope Programs
D. R. Blackmore, N. A. Argue, S. J. Matcher, B. L. Morgan, G. White, H. A. Vine, *Proc. S.P.I.E.*, 1237, in press (1990)

Results in Speckle Photometry
W. G. Bagnuolo, Jr., D. L. Barry, E. J. Dombrowski, *Proc. S.P.I.E.*, 1237, in press (1990)

2. THE SUN:

Interferometry Applied to Visible Solar Features

J. W. Harvey, *Nature*, 235, 90-91 (1972)

Solar Speckle Interferometry

J. W. Harvey, J. B. Breckinridge, *Ap. J.*, 182, L137-L139 (1973)

Photoelectric Speckle Interferometry of the Solar Granulation

J. W. Harvey, M. Schwarzschild, *Ap. J.*, 196, 221-226 (1975)

Interferometrie de Michelson Appliquee a la Granulation Photospherique - Premiers Resultat

C. Aime, G. Ricort, G. Grec, *Astron. Astrophys.*, 43, 313-315 (1975)

Solar Seeing and the Statistical Properties of the Photospheric Granulation - 1. Noise in Michelson and Speckle Interferometry

C. Aime, *Astron. Astrophys.*, 47, 5-7 (1976)

Solar Seeing and the Statistical Properties of the Photospheric Solar Granulation. 2. Power Spectrum Calibration via Michelson Stellar Interferometry

C. Aime, G. Ricort, G. Grec, *Astron. Astrophys.*, 54, 505-516 (1977)

Speckle Image Reconstructions of Solar Features

R. V. Stachnik, P. Nisenson, D. C. Ehn, R. H. Hudgin, V. E. Schirf, *Nature*, 266, 149-151 (1977)

Some Solar Observations Using Speckle Interferometry Techniques

C. Aime, *Proc. JOSO Conf.*, "Future Solar Optical Observations, Needs and Constraints" (1978)

One-dimensional Speckle Interferometry of the Solar Granulation

C. Aime, G. Ricort, J. W. Harvey, *Ap. J.*, 221, 362-367 (1978)

Interferometric Techniques Applied to High Resolution Observation of the Solar Granulation

C. Aime, *Proc. IAU Coll. #50*, "High Angular Resolution Stellar Interferometry", Paper 30 (1978)

Observations of the Sun with Interferometry and Speckle-interferometry Techniques

F. Roddier, *Proc. JOSO Conf.*, "Future Solar Optical Observations, Needs and Constraints", 96-109 (1978)

Application des Techniques de Speckle Interferometrie a l'Etude de la Granulation Solair

C. Aime, *J. Optics (Paris)*, 10, No. 6, 318-319 (1979)

Speckle Interferometric Techniques Applied to the Observation of the Solar Photosphere

C. Aime, G. Ricort, *Proc. SPIE*, 243, 58-64 (1980)

Temporal Autocorrelation Functions of Solar Speckle Pattern

C. Aime, S. Kadiri, F. Martin, G. Ricort, *Opt. Comm.*, 39, 287-292 (1981)

Determination of Fried's Seeing Parameter r_0 - Prediction for the Observed R. M. S. Contrast in Solar Granulation

G. Ricort, C. Aime, C. Roddier, J. Borgnino, *Solar Physics*, 69, 223-231 (1981)

Knox-Thompson Images of 4 Vesta

J. D. Drummond, E. K. Hege, A. Eckart
Proc. SPIE, 828, (1987)

Solar Granulation Power Spectra from Speckle Interferometry

O. von der Luhe, R. B. Dunn, *Astron. Astrophys.*, 177, 265-276 (1987)

Speckle-interferometric Study of the Solar Granulation from Centre to Limb

P. Druesne, J. Borgnino, F. Martin, G. Ricort, C. Aime, *Astron. Astrophys.*, 217, 229-236 (1989)

3. PLANETS/ASTEROIDS:

Sur la Mesure Interferentielle des Petits Diametres. Application aux Satellites de Jupiter et a Vesta

M. M. Hamy, *Bull. Astron.*, 16, 257 (1899)

The Angular Diameter of Vesta from Speckle Interferometry

S. P. Worden, M. K. Stein, G. D. Schmidt, J. R. P. Angel, *Icarus*, 32, 450-457 (1977)

Interferometric Determination of Asteroid Diameters

S. P. Worden, "Asteroids", (ed. T. Gehrels), Univ. of Arizona Press (1979)

Angular Diameter of the Asteroids Vesta and Pallas Determined from Speckle Observation

S. P. Worden, M. K. Stein, *A. J.*, 84, 140-142 (1979)

Measurement of the Diameter of Pluto by Speckle Interferometry

S. J. Arnold, A. Boksenberg, W. L. W. Sargent, *Ap. J.*, 234, L159-L163 (1979)

Interferometrie au 3.60-m CFHT I. Resolution du Systeme Pluton-Charon

D. Bonneau, R. Foy, *Astron. Astrophys.*, 92, L1-L4 (1980)

Possible Secondaries of Asteroids Found by Speckle Interferometry

E. K. Hege, W. J. Cocke, E. N. Hubbard, J. C. Christou, R. R. Radick, *Bull. Am. Ast. Soc.*, 12, 662 (1980)

Speckle Interferometry of Pluto (A News Report)

D. W. Hughes, *Nature*, 284, 123 (1980)

Measurement of Jupiter's Satellites by Interference

A. A. Michelson, *Nature*, 45, 160-161 (1981)

Radius and Limb Darkening of Titan from Speckle Imaging

P. Nisenson, J. Apt, R. Goody, P. Horowitz, *A. J.*, 86 (11), 1690-1693 (1981)

Speckle Interferometric Observations of Pluto and Charon

E. K. Hege, E. N. Hubbard, J. Drummond, P. A. Strittmatter, S. P. Worden, T. Lauer, *Icarus*, 50, 72-81 (1982)

Interferometric Measurements of Stellar Positions in the Infrared

E. C. Sutton, S. Subramanian, C. H. Townes, *Astron. Astrophys.*, 324-331 (1982)

Digital Speckle Interferometry of Juno, Amphitrite and Pluto's Moon Charon

G. Baier, N. Hetterich, G. Weigelt, *ESO Messenger*, 30, 23-26 (1983)

Speckle Interferometry Observations of the Asteroids Juno and Amphitrite

G. Baier, G. Weigelt, *Astron. Astrophys.*, 121, 137-141 (1983)

Speckle Interferometry Observations of Pluto's Moon Charon

N. Hetterich, G. Weigelt, *Astron. Astrophys.*, 125, 246-248 (1983)

Pluto

E. K. Hege, J. Drummond, *IAU Circ.*, No. 3986 (1984)

Speckle Interferometry of Asteroids I. 433 Eros

J. D. Drummond, W. J. Cocke, E. K. Hege, P. A. Strittmatter, J. V. Lambert, *Icarus*, 61, 132-151 (1985)

Speckle Interferometry of Asteroids II. 532 Herculina

J. D. Drummond, E. K. Hege, W. J. Cocke, J. D. Freeman, J. C. Christou, R. P. Binzel, *Icarus*, 61, 232-240 (1985)

Speckle Interferometry of Asteroids III. 511 Davida and Its Photometry

J. D. Drummond, E. K. Hege, *Icarus*, 67, 251-263 (1986)

First Direct Measurements of the Diameters of the Large Satellites of Uranus and Neptune

D. Bonneau, R. Foy, *Astron. Astrophys.*, 161, L12-L13 (1986)

Speckle Interferometric Observations of Pluto and Its Moon Charon on Seven Different Nights

G. Baier, G. Weigelt, *Astron. Astrophys.*, 174, 295-298 (1987)

Knox-Thompson Images of 4 Vesta

J. D. Drummond, E. K. Hege, A. Eckart, *Proc. SPIE*, 828, 27-31 (1987)

Near IR Imaging of Io

R. R. Howell, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 251-252 (1987)

Reconstructed Images of 4 Vesta

J. Drummond, A. Eckart, E. K. Hege
Proc. ESO Conf. No. 29, 519 (1988)

4. INFRARED OBSERVATIONS:

Initial Results of Spatial Interferometry at 5 Microns

D. W. McCarthy, F. J. Low, *Ap. J.*, 202, L37-L40 (1975)

Speckle Image Reconstructions of Solar Features

R. V. Stachnik, P. Nisenson, D. C. Ehn, R. H. Hudgin, V. E. Schirf, *Nature*, 266, 149-151 (1977)

Angular Diameter Measurements of Alpha Orionis, VY Canis Majoris and RC+10216 at 8.3, 10.2 and 11.1 Micrometers

D. W. McCarthy, F. J. Low, R. Howell, *Ap. J.*, 214, L85-L89 (1977)

Apparent Variation in the Diameter of Omicron Ceti at 10.2 Microns

D. W. McCarthy, R. Howell, F. J. Low, *Ap. J.*, 223, L113-L116 (1978)

Near Infrared Interferometry of the Galilean Satellites

R. R. Howell, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"*, Paper 17 (1978)

Variations in the Spatial Distribution of 11 Micron Radiation from Omicron Ceti

E. C. Sutton, J. W. V. Storey, C. H. Townes, D. L. Spears, *Ap. J.*, 224, L123-L126 (1978)

The Brightness Distribution of IRC+10216 at 11 Microns

E. C. Sutton, A. L. Betz, J. W. V. Storey, D. L. Spears, *Ap. J.*, 230, L105-L108 (1979)

Angular Diameter of IRC+10216, Mira, R. Cas and GL 2591 in the Near Infrared

R. Foy, A. Chelli, F. Sibille, P. Lena, *Astron. Astrophys.*, 79, L5-L8 (1979)

Interferometric Measurements of Flattened Circumstellar Envelopes

D. W. McCarthy, *Proc. IAU Coll. #50, "High Angular Resolution Stellar Interferometry"*, Paper 18 (1979)

Spatial Spectra of IRC+10216 from 2.2 to 20 Microns: Deviations From Spherical Symmetry

D. W. McCarthy, R. Howell, F. J. Low, *Ap. J.*, 235, L27-L31 (1980)

Preliminary Results of Direct Michelson Interferometry at 2.2 Microns with Two Telescopes on a Base Line of 12 m

G. Di Benedetto, G. Conti, O. Citterio, E. Mattaini, L. Koechlin, *Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s"*, 1006-1012 (1980)

One Dimensional High Resolution Image Reconstruction of Eta Carinae at 4.6 Microns with Speckle Data

A. Chelli, C. Perrier, Y. Biraud, *Astron. Astrophys.*, 117, 199-204 (1983)

The Sub-Arc Second Structure of IRC2 at 5 Microns

A. Chelli, C. Perrier, P. Lena, *Ap. J.*, 280, 163-169 (1984)

Diffraction-Limited Spatial Resolution of Circumstellar Dust Shells at 10 Microns

E. E. Bloemhof, C. H. Townes, A. H. B. Vanderwyck, *Ap. J.*, 276, L21-L24 (1984)

Discovery of an Infrared Companion to T Tauri

H. M. Dyck, T. Simon, B. Zuckerman, *Ap. J.*, 255, L103-L106 (1982)

Speckle Interferometry of Molecular Cloud Sources at 4.8 Microns

H. M. Dyck, R. R. Howell, *A. J.*, 87, 400-405 (1982)

Infrared Speckle Interferometry of the Nucleus of NGC 1068

D. W. McCarthy, F. J. Low, S. G. Kleinmann, F. C. Gillett, *Ap. J.*, 257, L7-L11 (1982)

Infrared Detection of the Low-mass Companion to Zeta Aquarii B

D. W. McCarthy, F. J. Low, S. G. Kleinmann, D. W. Arganbright, *Ap. J.*, 257, L75-L78 (1982)

Triple Structure of Infrared Source 3 in the Monoceros R2 Molecular Cloud

D. W. McCarthy, *Ap. J.*, 257, L93-L97 (1982)

Interferometric Measurements of Stellar Positions in the Infrared

E. C. Sutton, S. Subramanian, C. H. Townes, *Astron. Astrophys.* 324-331 (1982)

Speckle Interferometry of IRC+10216 in the Fundamental Vibration-Rotation Lines of C

H. M. Dyck, S. Beckwith, B. Zuckerman, *Ap. J.*, 271, L79-L83 (1983)

Astrometric and Infrared Speckle Analysis of the Visually Unresolved Binary BD+41 328

S. L. Lippincott, D. Braun, D. W. McCarthy, *P. A. S. P.*, 95, 271-274 (1983)

Infrared Speckle Imaging: Improvement of the Method - Results on Miras and Protostar

J. -M. Mariotti, A. Chelli, R. Foy, P. Lena, F. Sibille, G. Tchountonov, *Astron. Astrophys.*, 120, 237-248 (1983)

Recent Results of IR Speckle Interferometry at ESO

C. Perrier, *The Messenger*, 33, 16-19 (1983)

The Infrared Dust Shell Around the WC9 Star Ve 2-45

H. M. Dyck, T. Simon, R. D. Wolstencroft, *Ap. J.*, 277, 675-677 (1984)

Near-Infrared Speckle Interferometry of Evolved Stars and Bipolar Nebulae

H. M. Dyck, B. Zuckerman, C. Leinert, S. Beckwith, *Ap. J.*, 287, 801-813 (1984)

Mass Measurements of the Components of Mu Cas

D. W. McCarthy, *A. J.*, 89, No. 3, 433-435 (1984)

Spatially Resolved Infrared Observations of the Red Rectangle

J. C. Dainty, J. L. Pipher, M. G. Lacasse, S. T. Ridgway, *Ap. J.*, 293, 530-536 (1985)

Infrared Speckle Interferometry of Io: An Eruption in the Loki Region

R. R. Howell, M. T. McGinn, *Science*, 230, 63-65 (1985)

Infrared Detection of a Close Cool Companion to Van Biesbroeck 8

D. W. McCarthy, R. G. Probst, F. J. Low, *Ap. J.*, 290, L9-L13 (1985)

**High Spatial Resolution IR Observations and Variability of the Nuclear Region of NGC 1068:
Structure and Nature of the Inner 100 Parsecs**

A. Chelli, C. Perrier, I. Cruz-Gonzales, L. Carrasco, *Proc UAI Conf., "V Reunion Regional Latinoamericana de Astronomia de la UAI"* (1986)

The Spatial Extent of Heated Dust Around MWC349

C. Leinert, *Astron. Astrophys.*, 155, L6-L7 (1986)

The Search for Substellar Companions to Nearby Stars: Infrared Imaging From the Ground and from Space

D. W. McCarthy, *Proc. Conf., "Astrophysics of Brown Dwarfs"* (1986)

The Dust Shells of NML Cygnus and IRC 10420: Inner Radius, Temperature, and Optical Thickness

S. T. Ridgway, R. R. Joyce, D. Connors, J. L. Pipher, C. Dainty, *Ap. J.*, 302, 662-674 (1986)

Spatial Extent and Nature of the 3 micron Emission Feature in HD 97048 and CPD-56 8032

P. F. Roche, D. A. Allen, J. A. Bailey, *M. N. R. A. S.*, 220, 7p (1986)

High Spatial Resolution IR Observations and Variability of the Nuclear Region of NGC 1068: Structure and Nature of the Inner 100 pc

A. Chelli, C. Perrier, I. Cruz-Gonzales, L. Carrasco, *Astron. Astrophys.*, 177, 51-62 (1987)

High Spatial Resolution IR Observations and Variability of the Nuclear Region of NGC 1068: Structure and Nature of the Inner 100 pc

A. Chelli, C. Perrier, I. Cruz-Gonzales, L. Carrasco, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 253 (1987)

Infrared Speckle Interferometry and Imaging of Several OH/IH Stars

M. L. Cobb, J. D. Fix, *Ap. J.*, 315, 325-336 (1987)

Near IR Imaging of Io

R. R. Howell, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 251-252 (1987)

ZCma Resolved at Near Infrared Wavelengths: One More Piece to the Puzzle

Ch. Leinert, M. Haas, *Astron. Astrophys.*, 182, L47-L50 (1987)

Gliese 866: A New, Low-mass Binary in the Solar Neighborhood

D. W. McCarthy, M. L. Cobb, R. G. Probst, *A. J.*, 93 (6), 1535-1538 (1987)

Direct Infrared Observations of the Very Low Mass Object Gliese 623B

D. W. McCarthy, T. J. Henry, *Ap. J.*, 319, L93-L98 (1987)

Imaging of Low Mass Binary Companions and Circumstellar Disks

D. W. McCarthy, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 237-240 (1987)

High Spatial Resolution Near Infrared Multi-Band Imaging of Star Formation Regions

J. Rayner, I. McLean, *Proc. Honolulu Workshop, "Ground-based Astronomical Observations with Infrared Array Detectors"* (1987)

Infrared Interferometric Studies of Circumstellar Dust Shells

S. T. Ridgway, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 245-246 (1987)

The Dust Shells of NML Cygnus and IRC 10420: Inner Radius, Temperature, and Optical Thickness: Erratum

S. T. Ridgway, R. J. Joyce, D. C. Connors, J. L. Pipher, C. Dainty, *Ap. J.*, 312, 963 (1987)

Infrared Companion to T Tauri Stars

A. Chelli, H. Zinneker, L. Carrasco, I. Cruz-Gonzales, C. Perrier, *Astron. Astrophys.*, 207, 46-54 (1988)

Image Reconstruction with Noisy One-Dimensional Near Infrared Speckle Data

C. Leinert, M. Haas

Proc. ESO Conf. No. 29, 533 (1988)

Near-Infrared Imaging of Low Mass Objects as Close Companions to Nearby Stars

D. W. McCarthy Jr., J. C. Christou, T. J. Henry

Proc. ESO Conf. No. 29, 541 (1988)

10 μ m Speckle Interferometry Observations of Evolved Stars

J. A. Benson, N. H. Turner, H. M. Dyck, *Astron. J.*, 97, 1763-1765 (1989)

Infrared Speckle Observations of the Binary Ross 614AB: Combined Shift-and-add and Zero-and-add Analysis

B. L. K. Davey, W. J. Cocke, R. H. T. Bates, D. W. McCarthy, Jr., J. C. Christou, M. L. Cobb, *Astron. J.*, 98, 1040-1048 (1989)

Infrared Speckle Observation of SN 1987A in LMC

C. Perrier, A. Chalabaev, J. -M. Mariotti, P. Bouchet, *Proc. ESO Workshop, "Supernova 1987A in the LMC"* (in press)

GSS31: Another T Tauri Star with an Infrared Companion

H. Zinneker, A. Chelli, L. Carrasco, I. Cruz-Gonzales, C. Perrier, *Proc. IAU Symposium #122, "Circumstellar Matter"* (in press)

Circumstellar Matter around the Candidate Protostar E129

H. Zinneker, C. Perrier, A. Chelli, *Proc. IAU Symposium #122, "Circumstellar Matter"* (in press)

Visibility Curves at 10 m Wavelength for the Stars with Dust Shells

W. C. Danchi, M. W. Bester, C. Degiacconi, C. H. Townes, *Proc. S.P.I.E.*, 1237, in press (1990)

Infrared Speckle Imaging at Palomar

A. M. Ghez, S. Kulkarni, K. Matthews, G. X. Neugebauer, T. A. Prince, N. Weir, *Proc. S.P.I.E.*, 1237, in press (1990)

Diffraction-Limited Imaging of Circumstellar Shells Using Aperture Masks and Fully Filled Apertures at IR Wavelengths

C. Haniff, J. C. Christou, D. Buscher, S. T. Ridgway, *Proc. S.P.I.E.*, 1237, in press (1990)

Infrared Nonredundant Mask Imaging at Palomar

N. Weir, A. M. Ghez, S. Kulkarni, K. Matthews, G. X. Neugebauer, T. A. Prince, *Proc. S.P.I.E.*, 1237, in press (1990)

E. SPACE INTERFEROMETRY CONCEPTS (chronological order)

- 1. Space Interferometers*
 - 2. Interferometry with Large Space Telescopes*
 - 3. Lunar-based Interferometry*
-

1. SPACE INTERFEROMETERS:

"FLUTE", A Long-baseline Optical Interferometer in Space,

A. Labeyrie, *Proc. KPNO Conf. "Optical and Infrared Telescopes of the 1990's"*, 5, 1020-1026 (1980)

A 50-Meter Michelson Stellar Interferometer on a Space Platform

M. Faucherre, M. G. Lacasse, P. Nisenson, R. D. Reasenberg, M. Shao, R. V. Stachnik, W. A. Traub, *Bull. Am. Ast. Soc.*, 16, 793-796 (1984)

Dynamical Astronomy via Optical Astrometric Interferometry in Space

R. D. Reasenberg, J. F. Chandler, *Bull. Am. Ast. Soc.*, 16, 723 (1984)

TRIO: A Kilometric Optical Array Controlled by Solar Sails

A. Labeyrie, B. Authier, J. B. Boit, T. de Graauw, E. Kibblewhite, L. Koechlin, P. Rabout, G. Weigelt, *Bull. Am. Ast. Soc.*, 16, 828 (1984)

Laboratory Demonstration of Image Reconstruction for COSMIC

W. A. Traub, *Proc. SPIE*, 440, "Synthetic Aperture Systems", 143-147 (1984)

COSMIC: A High Resolution, Large Collecting Area Telescope

W. A. Traub, N. P. Carleton, *Bull. Am. Ast. Soc.*, 16, 805-809 (1984)

TRIO Interferometer Positioning

B. Authier, *Proc. ESA Colloq., "Kilometric Optical Arrays in Space"*, 95-97 (1985)

TRIO Optics

B. Authier, P. Rabout, A. Labeyrie, *Proc. ESA Colloq., "Kilometric Optical Arrays in Space"*, 79-84 (1985)

The OASIS Correlator

P. D. Atherton, A. H. Greenaway, J. E. Noordam, *Proc. ESA Colloq., "Kilometric Optical Arrays in Space"*, 141-144 (1985)

TRIO a Kilometric Array Stabilized by Solar Sails

A. Labeyrie, B. Authier, T. de Graauw, E. Kibblewhite, G. Weigelt, *Proc. ESA Colloq., "Kilometric Optical Arrays in Space"*, 121-128 (1985)

High Angular Resolution in the Infrared: Prospects for Space Observations

P. Lena, *Proc. ESA Colloq., "Kilometric Optical Arrays in Space"*, 17-22 (1985)

OASIS: Optical Aperture Synthesis in Space

J. E. Noordam, P. D. Atherton, A. H. Greenaway, *Proc. ESA Colloq., "Kilometric Optical Arrays in Space"*, 63-69 (1985)

COSMIC: A High Resolution, Large Collecting Area Telescope

W. A. Traub, N. P. Carleton, *Proc. ESA Colloq., "Kilometric Optical Arrays in Space"*, 121-128 (1985)

TRIANGLE: A Different Design for a Three Satellite Interferometer in Space

F. Vakili, *Proc. ESA Colloq., "Kilometric Optical Arrays in Space"*, 107-112 (1985)

Slicing the Sky: Sharper Images with an Orbiting Array of Optical Telescopes

W. A. Traub, *"Infinite Vistas: New Tools for Astronomy"*, ed. E. J. Cornell and J. Carr (Chas. Scribners Sons, N. Y.), 67-103 (1985)

Imaging Speckle Interferometer (ISI) in Space: Digital Simulations of Image Reconstruction and Photon Noise

K. -H. Hofmann, G. Weigelt, *Proc. ESA Colloq., "Kilometric Optical Arrays in Space"*, 121-128 (1985)

Prospects for Planetary Detection Using POINTS

R. W. Babcock, J. F. Chandler, R. D. Reasenberg, *BAAS*, 17, 705 (1985)

DUO: A Far Infrared Heterodyne Concept for Space Interferometry

J. Gay, Y. Rabbia, *Proc. ESA Colloq., "Kilometric Optical Arrays in Space"*, 171-176 (1985)

SAMSI: An Orbiting Spatial Interferometer for Micro-Arcsecond Astronomical Observations

R. V. Stachnik, D. Y. Gezari, *Proc. ESA Colloq., "Kilometric Optical Arrays in Space"*, 35-42 (1985)

A Fiber-Linked Version of Project TRIO

P. Connes, C. Froehly, P. Facq, *Proc. ESA Colloq., "Kilometric Optical Arrays in Space"*, 49-62 (1985)

Strategy for the Development of Space Arrays

A. Labeyrie, *Proc. ESA Colloq., "Kilometric Optical Arrays in Space"*, 23-26 (1985)

ESA: Technological Research Activities on Lightweight Mirrors

A. Connolly, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 103-110 (1987)

Aperture Synthesis in Space: Technical Problems

D. Morançais, P. Roussel, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 177-188 (1987)

ESA: Space Station Based Interferometry

H. Olthof, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 93-94 (1987)

NASA: JPL Study On Optical Imaging Interferometry in Space

S. P. Synnott, R. E. Freeland, E. Ribak, E. F. Tubbs, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 113-116 (1987)

NASA: Comments on NASA Plans for Interferometry in Space

R. V. Stachnik, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 111-112 (1987)

A Test-bed for Space Interferometry: SPI

M. Faucherre, L. Dame, R. V. Stachnik, W. A. Traub, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 197-204 (1987)

SAMSI: A Spacecraft Array for Michelson Spatial Interferometry

R. V. Stachnik, M. Faucherre, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 61-62 (1987)

Binary Star Explorer

W. A. Traub, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 67-68 (1987)

ISIS: Image Reconstruction Methods and Signal-to-Noise Ratio Investigations

K. -H. Hofmann, G. Weigelt, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 37-40 (1987)

The Fraction of Close Binaries Among Hubble Space Telescope Guide Stars Operation

Consequences, Workaround and Suggestions for Designers of Future Space Observatories
M. M. Shara, R. Doxsey, E. N. Wells, H. A. McAlister, *P. A. S. P.*, 99, 223 (1987)

Fiber Linked Telescope Arrays on the Ground and in Space

P. Connes, F. Roddier, S. Shaklan, E. Ribak, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 73-84 (1987)

A Comparison of Interferometry from Space and Ground

A. H. Greenaway, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 5-10 (1987)

Electronically Agile Multiple Aperture Imager Receiver

P. D. Henshaw, D. E. B. Lees *Proc. SPIE*, 828, 134 (1987)

Imaging Strategies with a Space-borne Interferometer

F. Roddier, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 23-30 (1987)

OASIS: A Mission Concept

J. E. Noordam, A. H. Greenaway, J. D. Bregman, R. S. le Poole, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 51-60 (1987)

Ground-based Optical Interferometry

S. T. Ridgway, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 119-126 (1987)

COSMIC

W. A. Traub, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 63-66 (1987)

Aperture Synthesis and the Space Station : Are they Compatible?

M. Faucherre and H. Olthof, *Proc. Conf. "High Resolution Imaging by Interferometry"* (1988)

Aperture Synthesis in Space : An Overview and Results from the ESA Study Group

M. Faucherre, A. Greenaway, F. Merkle, J. E. Noordam, M. A. C. Perryman, F. Vakili, S. Volonte and G. P. Weigelt, *Proc. Conf., "Diffraction-limited Imaging with Very Large Telescopes"* (1989)

The Opportunity to Optimize Optical Aperture Synthesis Instrument Concepts

M. Faucherre, *Proc. Conf., "Physics and Astrophysics in the Space Station Era"* (1989)

Beam Combination in Aperture Synthesis from Space : FOV Limitations and [u,v] Plane Coverage Optimization

M. Faucherre, F. Merkle, and F. Vakili, *Proc. Conf., "New Technologies for Astronomy"* (1989)

Aperture Synthesis in Space : Review of the Field and Trends

M. Faucherre, A. H. Greenaway, F. Merkle, J. E. Noordam, M. A. C. Perryman, M. Roussel, F. Vakili, S. Volonte and G. P. Weigelt, *Proc. Conf., "New Technologies for Astronomy"* (1989)

Long Baseline Optical Interferometry in Earth Orbit (System Comparisons)

A. B. De Cou, *Proc. S.P.I.E.*, 1237, in press (1990)

Michelson versus Fizeau Type Beam Combination : Is There a Difference?

M. Faucherre, B. Delabre, P. Diericks and F. Merkle, *Proc. S.P.I.E.*, 1237 (1990)

HARDI: A High Angular Resolution Deployable Interferometer for Space

P. Y. Bely, C. Burrows, F. J. Roddier, C. Weigelt, *Proc. S.P.I.E.*, 1237, in press (1990)

A Proposed Medium-term Strategy for Optical Interferometry in Space

J. E. Noordam, P. Y. Bely, M. Faucherre, A. H. Greenaway, F. Merkle, M. A. C. Perryman, P. H. Roussel, F. Vakili, S. Volonte and G. P. Weigelt, *Report to the ESA Astronomy Working Group by the Space Interferometry Study Team*, (ESA report May 1990, in press) (1990)

Comparison of Ground-and-Space-Based Interferometry Technical Issues

M. Shao, *Proc. S.P.I.E.*, 1237, in press (1990)

2. INTERFEROMETRY WITH LARGE SPACE TELESCOPES:

Amplitude Interferometry on the Large Space Telescope

D. G. Currie, *Tech. Rep. 77-056*, University of Maryland (1977)

Standing Wave and Pellicle: A Possible Approach to Very Large Space Telescope

A. Labeyrie, *Astron. Astrophys.*, 77, L1-L2 (1979)

How to Achieve Diffraction Limited Resolution with Large Space Telescopes

F. Roddier, *Adv. Space Res.*, 2, No. 4, Proc. COSPAR Symp. #4 (1983)

Interferometric Image Reconstruction Using the L. D. R. in a Light Bucket Mode

F. Roddier, J. B. Breckinridge, *Bull. Am. Ast. Soc.*, 16, No. 3, "Workshop on Optical Interferometry in Space", 832 (1984)

Deconvolution of Images Recorded with Large Space Telescopes: Roll Deconvolution and Aberration Plate Method

M. Muller, M. Walter, G. Weigelt, *Proc. ICO-13 Conf.*, "Optics in Modern Science and Technology", 52 (1984)

High-resolution Imaging with Large Space Telescopes

G. Weigelt, *Proc. ICO-13 Conf.*, "Optics in Modern Science and Technology", 558 (1984)

Roll Deconvolution of Space Telescope Data: Inverse Filtering of Two Speckle Interferogram

M. Muller, G. Weigelt, *Proc. SPIE*, 556, 270-273 (1985)

Roll Deconvolution of Space Telescope Data

M. Walter, G. Weigelt, *Adv. Space Res.*, 5, No. 3, 169 (1985)

Concepts for a Large Telescope in Space with Interferometric Imaging

P. Bely, F. Roddier, *Proc. AIAA 24th Aerospace Sciences Meeting* (1986)

ESA: Technological Research Activities on Lightweight Mirrors

A. Connolly, *Proc. ESA Workshop*, "Optical Interferometry in Space", 103-110 (1987)

High-resolution Astronomical Imaging by Roll Deconvolution of Space Telescope Data

M. Muller, G. Weigelt, *Astron. Astrophys.*, 175, 312-318 (1987)

The Fraction of Close Binaries Among Hubble Space Telescope Guide Stars Operation

Consequences, Workaround and Suggestions for Designers of Future Space Observatories

M. M. Shara, R. Doxsey, E. N. Wells, H. A. McAlister, *P. A. S. P.*, 99, 223 (1987)

Satellite Imaging with Speckle Interferometry

P. D. Shubert, *Proc. S.P.I.E. No. 1351*, 80, (in press) (1990)

3. LUNAR-BASED INTERFEROMETRY:

Lunar Outpost Astrophysics Program, Program Overview

R. V. Stachnik and A. Opp, *NASA Headquarters Report (Code EZ), preprint. (1990)*

Comparison of Ground-and-Space-Based Interferometry Technical Issues

M. Shao, *Proc. S.P.I.E., 1237, in press (1990)*

Astronomical Interferometry on the Moon

B. F. Burke, *Proc. Workshop: "Lunar Bases and Space Activities of the 21st Century*, ed. W. W. Mendell, Lunar and Planetary Institute (Houston, TX), p. 281-291 (1985)

Lunar Environment, Atmosphere and Radiation

R. R. Vondrak, *Proc. NASA Workshop "Astrophysics from the Moon"*, ed. M. Mumma and H. Smith, (Annapolis, MD Feb. 5, 1990), in press (1990)

A Plan for the Development of Lunar Astronomy

M. V. Sykes, F. V. Vilas, T. L. Page, H. J. Smith, J. O. Burns, M. Colavita, J. Snyder, S. A. Stern, D. L. Talent, *Proc. NASA Workshop "Astrophysics from the Moon"*, ed. M. Mumma and H. Smith, (Annapolis, MD Feb. 5, 1990), in press (1990)

A Review of Recent Lunar Observatories Workshops

J. O. Burns, *Proc. NASA Workshop "Astrophysics from the Moon"*, ed. M. Mumma and H. Smith, (Annapolis, MD Feb. 5, 1990), in press (1990)

The Lunar Version of the Optical Very Large Array and its Uses

A. Labeyrie, *Proc. NASA Workshop "Astrophysics from the Moon"*, ed. M. Mumma and H. Smith, (Annapolis, MD Feb. 5, 1990), in press (1990)

Four Astronomical Observatories for the Lunar Outpost

P. N. Swanson, *Proc. NASA Workshop "Astrophysics from the Moon"*, ed. M. Mumma and H. Smith, (Annapolis, MD Feb. 5, 1990), in press (1990)

Lunar Bases and the Post-Apollo Lunar Exploration: An Annotated Bibliography of Federally-Funded American Studies

P. D. Lowman, Jr., NASA/Goddard Space Flight Center Code 622, preprint (1984)

Space Exploration Initiative (SEI) Science Payloads: Descriptions and Delivery Requirements

R. H. Cohen, *Jet Propulsion Laboratory Report: JPL D-7281, (1990)*

A Proposed Medium-term Strategy for Optical Interferometry in Space

J. E. Noordam, P. Y. Bely, M. Faucherre, A. H. Greenaway, F. Merkle, M. A. C. Perryman, P. H. Roussel, F. Vakili, S. Volonte and G. P. Weigelt, *Report to the ESA Astronomy Working Group by the Space Interferometry Study Team, (ESA report May 1990, in press (1990)*

SPATIAL INTERFEROMETRY IN OPTICAL ASTRONOMY

- V. L. Afanasjev, I. I. Balega, Y. Y. Balega, V. A. Vasyuk, V. G. Orlov
Speckle Interferometry and Speckle Spectroscopy with the 6-m Telescope
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 127 (1988)
- C. Aime
Measurement of Averaged Squared Modulus of Atmospheric-lens Modulation Transfer Function
J. Opt. Soc. Am., 4, 1129-1132 (1974)
- C. Aime, C. Roddier, F. Roddier
Holographic Recording and Reconstruction of Astronomical Images
Proc. OSA Topical Meeting, "Imaging in Astronomy" (1975)
- C. Aime, G. Ricort, G. Grec
Interferometrie de Michelson Appliquee a la Granulation Photospherique - Premiers Resultats
Astron. Astrophys., 43, 313-315 (1975)
- C. Aime, F. Roddier
Imaging Through Turbulence With Telescope Arrays
Opt. Comm., 19, 57-60 (1976)
- C. Aime
Solar Seeing and the Statistical Properties of the Photospheric Granulation - 1. Noise in Michelson and Speckle Interferometry
Astron. Astrophys., 47, 5-7 (1976)
- C. Aime, G. Ricort, G. Grec
Solar Seeing and the Statistical Properties of the Photospheric Solar Granulation - 2. Power Spectrum Calibration via Michelson
Astron. Astrophys., 54, 505-516 (1977)
- C. Aime, F. Roddier
One Dimensional Stellar and Solar Speckle Interferometry
Opt. Comm., 21, 435-438 (1977)
- C. Aime
Some Solar Observations Using Speckle Interferometry Techniques
Proc. JOSO Conf., "Future Solar Optical Observations Needs and Constraints" (1978)
- C. Aime, G. Ricort, J. W. Harvey
One-dimensional Speckle Interferometry of the Solar Granulation
Ap. J., 221, 362-367 (1978)
- C. Aime, G. Ricort, C. Roddier, G. Lago
Changes in the Atmospheric-lens Modulation Transfer Function Used for Calibration in Solar Speckle Interferometry
J. Opt. Soc. Am., 68, 1063-1065 (1978)
- C. Aime
The Influence of Scanning Rate in Sequential Analysis of Fringes Produced by a Michelson Interferometer
-

Opt. Comm., 26, 139-142 (1978)

C. Aime

Application des Techniques de Speckle Interferometrie a l'Etude de la Granulation Solaire

J. Optics (Paris), 10, No. 6, 318-319 (1979)

C. Aime

Interferometric Techniques Applied to High Resolution Observation of the Solar Granulation

Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 30 (1979)

C. Aime, S. Kadiri, G. Ricort, C. Roddier, J. Vernin

Measurement of Stellar Speckle Interferometry Lens-atmosphere Modulation Transfer Function

Opt. Acta, 26, 575-581 (1979)

C. Aime, S. Kadiri, G. Ricort

The Influence of Scanning Rate in Sequential Analysis of a Speckle Pattern. Application to Speckle Boiling

Opt. Comm., 35, 169-174 (1980)

C. Aime, G. Ricort

Speckle Interferometric Techniques Applied to the Observation of the Solar Photosphere

Proc. SPIE, 243, 58-64 (1980)

C. Aime, S. Kadiri, F. Martin, G. Ricort

Temporal Autocorrelation Functions of Solar Speckle Pattern

Opt. Comm., 39, 287-292 (1981)

C. Aime, J. Demarcq, F. Martin, G. Ricort

One-dimensional Telescope Aperture for Brightness and Velocity Speckle Interferometry Measurements

Proc. SPIE, 332, 436-439 (1983)

C. Aime, J. Demarcq, F. Martin, G. Ricort

One-Dimensional Telescope Aperture for Brightness and Velocity Speckle Interferometry Measurements

Opt. Engr., 22, 224-226 (1983)

C. Aime, S. Kadiri, F. Martin, R. Petrov, G. Ricort

Differential Speckle Interferometry: Test on Atmospheric Dispersion

Proc. AAS/OSA Joint Topical Meeting, "Information Processing in Astronomy and Optics", FA10 (1983)

C. Aime, S. Kadiri, F. Martin, R. Petrov, G. Ricort

Measurement of Submilliarcsecond Speckle Displacements Using a Cross Spectrum Analysis Technique: Test on Atmospheric Dispersion

Astron. Astrophys., 134, 354-359 (1984)

C. Aime, R. Petrov, F. Martin, G. Ricort, J. Borgnino

Cross Spectrum Techniques Applied to Astronomical Speckle Interferometry

Proc. SPIE, 556, 297-310 (1985)

C. Aime, J. Borgnino, S. Kadiri, F. Martin, R. Petrov, G. Ricort

Contribution to the Space-time Study of Stellar Speckle Patterns

J. Opt. Soc. Am. A., 3, 1001-1009 (1986)

C. Aime, R. Petrov, F. Martin, G. Ricort, J. Borgnino

Speckle Interferometry and Differential Speckle Imagery Using Cross-spectrum Techniques

Optical. Engr., 25, 716-723 (1986)

C. Aime

Recovery of Astronomical Images from a Dichromatic Analysis of Speckles

Proc. Florence Conf., "Optical and Millimetric Wave Propagation and Scattering in the Atmosphere", 55-58 (1986)

C. Aime

Phase Retrieval from a Dichromatic Analysis of Speckles

Opt. Lett., 11, 597-599 (1986)

C. Aime

Phase Retrieval from a Polychromatic Speckle Analysis

Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 85-88 (1987)

C. Aime

Probability Imaging of Double and Multiple Stars

Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 63-66 (1987)

C. Aime

Proposition d'Imagerie Probabiliste de Systemes d'Etoiles en Interferometrie de Speckle

J. Optics (Paris), 18 (3), 101-110 (1987)

C. Aime, F. Martin

Imaging of Multiple Star Systems Using the Second Probability Density Function: Mathematical Description and Numerical Simulation

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 425 (1988)

C. Aime, J. Borgnino, G. Lund, G. Ricort

Tetrapus: Non Diffraction Limited Resolution Using Chromatic Position Difference Measurements

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 249 (1988)

C. Aime, E. Aristidi, H. Lanteri, G. Ricort

Second Order Statistics of Astronomical Speckle Patterns Used for Image Reconstruction

Proc. S.P.I.E. No. 1351, in press (1990)

R. W. Airey, D. J. Lees, B. L. Morgan, M. J. Traynar

The Imperial College System for Photon Even Counting (SPEC)

Adv. E. E. P., 64 (1984)

G. J. M. Aitken, D. L. Desaulniers

Reconstruction of Turbulence-degraded Images by Spectral Ratio Measurements

J. Opt. Soc. Am., 67, 843-844 (1977)

- G. J. M. Aitken, D. L. Desaulniers
Restoration of Atmospherically Degraded Images Using Complex Spectral Ratios
Opt. Comm., 28, 26-29 (1979)
- G. J. M. Aitken
Split-band Interferometers
Opt. Comm., 40, 5-9 (1981)
- G. J. M. Aitken, J. P. Corteggiani, J. Gay
Partially Redundant Apertures for Infrared Stellar Imaging
J. Opt. Soc. Am., 71, 759-763 (1981)
- G. J. M. Aitken, R. Houtman, R. Johnson, J. M. Pochet
Direct Phase Gradient Measurement for Speckle Image Reconstruction
Appl. Opt., 24 (18), 2926 (1985)
- G. J. M. Aitken, R. Houtman, R. Johnson
Phase-gradient Speckle Image Processing: Digital Implementation and Noise Bias Terms
Appl. Opt., 25 (7), 1031 (1986)
- G. J. M. Aitken, R. Johnson, R. Houtman
Stellar Speckle-image Reconstruction from Phase Gradients
Proc. Florence Conf., "Optical and Millimetric Wave Propagation and Scattering in the Atmosphere", 63-65 (1986)
- G. J. M. Aitken
Phase-Gradient Estimation for Speckle Image Reconstruction
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 59-62 (1987)
- G. J. M. Aitken, R. Johnson
Phase-gradient Speckle-image Reconstruction: Discrete Photon Case
Proc. SPIE, 828, 47-52 (1987)
- G. J. M. Aitken, R. Johnson
Phase-gradient Reconstruction from Photon-limited Stellar Speckle Images
Appl. Opt., 26, 4246-4249 (1987)
- G. J. M. Aitken, R. Johnson
Comparison of Discrete-Photon Phase-Gradient and Knox-Thompson Algorithms
Proc. ESO Conf. No. 29, 373 (1988)
- G. J. M. Aitken, R. Johnson
Phase-gradient Reconstruction from Photon-limited Stellar Speckle Images: Erratum
Appl. Opt., 27, 215 (1988)
- G. J. M. Aitken
Diffraction-limited Imaging from the Ground: Measurement of Stellar Spatial Spectra
P. A. S. P., 101, 471-488 (1989)
- D. A. Allen, J. R. Barton, P. T. Wallace
The Size of a Wolf-Rayet Star's Dust Shell Measured by Speckle Interferometry
-

M. N. R. A. S., 196, 797-800 (1981)

J. A. Anderson

Application of Michelson's Interferometer Method to the Measurement of Close Double Stars
Ap. J., 51, 263-275 (1920)

I. Appenzeller

High Resolution Imaging and Stellar Physics

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 19 (1988)

A. N. Argue, J. C. Hebden, B. L. Morgan, H. Vine

Speckle Interferometry of Hipparcos Link Stars

M. N. R. A. S., 206, 669-672 (1984)

J. D. Armitage, A. Lohmann

Rotary Shearing Interferometry

Opt. Acta, 12, 185 (1965)

S. J. Arnold, A. Boksenberg, W. L. W. Sargent

Measurement of the Diameter of Pluto by Speckle Interferometry

Ap. J., 234, L159-L163 (1979)

N. R. Arnot

A Technique for Obtaining Diffraction Limited Pictures from a Single Large-aperture Small-exposure Image

Opt. Comm., 45, 380-384 (1983)

H. Arsenault, S. Lowenthal

La Restitution de la Phase a Partir de Mesures d'Eclairment

C. R. Acad. Sc. (Paris), 269, 518-521 (1969)

H. H. Arsenault, K. Chalasinska-Macukow

The Solution to the Phase Retrieval Problem Using the Sampling Theorem

Opt. Comm., 47, 380-386 (1983)

T. Asakura, H. Fujii, K. Murata

Measurement of Spatial Coherence Using Speckle Patterns

Opt. Acta, 19, 273-290 (1972)

P. Assus, H. Choplin, J. P. Corteggiani, E. Cuot, J. Gay, A. Journet, G. Merlin, Y. Rabbia

L'Interferome Tre Infrarouge du Cerga

J. Optics (Paris), 10, No. 6, 345-350 (1979)

P. D. Atherton, A. H. Greenaway, J. E. Noordam

The OASIS Correlator

Proc. ESA Colloq., "Kilometric Optical Arrays in Space", 141-144 (1985)

B. Authier, P. Rabout, A. Labeyrie

TRIO Optics

Proc. ESA Colloq., "Kilometric Optical Arrays in Space", 79-84 (1985)

B. Authier

TRIO Interferometer Positioning

Proc. ESA Colloq., "Kilometric Optical Arrays in Space", 95-97 (1985)

G. R. Ayers, J. C. Dainty, M. J. Northcott

Knox-Thompson and Triple Correlation Imaging at Low Light Levels

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 325 (1988)

G. R. Ayers, M. J. Northcott, J. C. Dainty

Knox-Thompson and Triple-correlation Imaging Through Atmospheric Turbulence

J. Opt. Soc. Am. A., 5, 963-985 (1988)

G. R. Ayers, J. C. Dainty

Iterative Blind Deconvolution Method and Its Applications

Opt. Lett., 13, 547-549 (1988)

G. R. Ayers, E. J. Spillar

Deconvolution of Intensity Correlation Functions

Proc. S.P.I.E. No. 1351, in press (1990)

G. R. Ayers

Speckular Reflections -- Developments in Astronomical Speckle Imaging

Proc. S.P.I.E. No. 1351, in press (1990)

N. Baba, F. Kawaguchi, T. Ose, S. Isobe

Phase Unwrapping Method Along Radial Coordinates for Speckle Image Reconstruction

Opt. Comm., 49 (1), 11 (1984)

N. Baba, S. Isobe, M. Noguchi, Y. Norimoto, N. Miura

Data Reduction for Stellar Speckle Interferograms of Binary Stars Based on the Shift-and-add Method

Appl. Opt., 26, 2306-2310 (1987)

N. Baba, M. Tabata

Speckle Spectroscopy Based on Shift-and-Add Method

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 447 (1988)

N. Baba, M. Tabata, K. Murata

Wide-band Speckle Spectroscopy Based on Shift-and-add Method

Opt. Lett., 13, 616-618 (1988)

R. W. Babcock, J. F. Chandler, R. D. Reasenberg

Prospects for Planetary Detection Using POINTS

BAAS, 17, 705 (1985)

W. G. Bagnuolo

The Application of Bates' Algorithm to Binary Stars

M. N. R. A. S., 200, 1113-1122 (1982)

W. G. Bagnuolo

Shift-and-add Type Algorithms and Their Application to Capella

Proc. IAU Coll. No. 62, "Current Techniques in Double and Multiple Star Research", 180-184 (1983)

W. G. Bagnuolo, H. A. McAlister
The True Nodal Quadrant of Capella
P. A. S. P., 95, 992 (1983)

W. G. Bagnuolo
Effect of Nonisoplanicity on the Shift-and-add Algorithm
Opt. Lett., 9, 65-67 (1984)

W. G. Bagnuolo
Image Restoration by the Shift-and-add Algorithm
Opt. Lett., 10, 200-202 (1985)

W. G. Bagnuolo, R. W. Chambers
High Resolution Imaging of the M87 Core
Nature, 326, 681-683 (1987)

W. G. Bagnuolo Jr.
Simulations for the CHARA/GSU Interferometer and Binary Star Speckle Photometry
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 981 (1988)

W. G. Bagnuolo, Jr.
Binary Star Intensity Ratios by the Fork Algorithm
Opt. Lett., 13, 907-909 (1988)

W. J. Bagnuolo Jr., J. R. Sowell
Binary Star Speckle Photometry. I. The Colors and Spectral Types of the Capella Stars
Astron. J., 96, 1056-1060 (1988)

G. Baier, J. Ebersberger, A. Lohmann, G. Weigelt
Applications of Digital and Optical-Digital Stellar Speckle Interferometry
Proc. SPIE, 264, 58-63 (1980)

G. Baier, E. Keller, G. Weigelt
Digital Photon-counting Speckle Interferometry
Signal Processing II: Theories and Applications, ed. H. W. Schussler (Elsevier Sci. Pub. B. V., North Holland, Eurasip) (1983)

G. Baier, N. Hetterich, G. Weigelt
Digital Speckle Interferometry of Juno, Amphitrite and Pluto's Moon Charon
ESO Messenger, 30, 23-26 (1983)

G. Baier, G. Weigelt
Speckle Interferometry Observations of the Asteroids Juno and Amphitrite
Astron. Astrophys., 121, 137-141 (1983)

G. Baier, R. Ladebeck, G. Weigelt
Speckle Interferometry of the Central Object in the Giant H II Region NGC 3603
Astron. Astrophys., 151, 61-63 (1985)

G. Baier, U. Bastian, E. Keller, R. Mundt, G. Weigelt
Speckle Interferometry of T Tauri Stars and Related Objects

Astron. Astrophys., 153, 278-280 (1985)

G. Baier, G. Weigelt

Speckle Interferometric Observations of Pluto and Its Moon Charon on Seven Different Nights
Astron. Astrophys., 174, 295-298 (1987)

G. Baier, J. Eckert, K. H. Hofmann, W. Mauder, D. Schertl, H. Weghorn, G. Weigelt

Speckle Masking, *Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry"*, 151 (1988)

J. E. Baldwin, P. J. Warner

Phaseless Aperture Synthesis
M. N. R. A. S., 182, 411-422 (1978)

J. E. Baldwin, C. A. Haniff, C. D. Mackay, J. P. Warner

Closure Phase in High-resolution Optical Imaging
Nature, 370, 595-597 (1986)

J. E. Baldwin

Imaging by Optical Aperture Synthesis
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 139-142 (1987)

J. Baldwin

Phase Closure
Proc. NATO Advanced Study Institute, "Diffraction-Limited Imaging with Very Large Telescopes", 10 (1988)

Y. Y. Balega, N. A. Tikhonov

Speckle Interferometry of Some Bright Stars with the 6-Meter Telescope
Sov. Astron. Lett., 3, 272-273 (1977)

Y. Y. Balega, A. Blazit, D. Bonneau, L. Koechlin, R. Foy, A. Labeyrie

The Angular Diameter of Betelgeuse
Astron. Astrophys., 115, 253-256 (1982)

Y. Y. Balega, D. Bonneau, R. Foy

Speckle Interferometric Measurements of Binary Stars: II
Astron. Astrophys. Suppl. Ser., 57, 31-36 (1984)

Y. Y. Balega, I. I. Balega

Digital Speckle Interferometry of 72 Binary Stars
Sov. Astron. Lett., 11, 47-52 (1985)

R. Barakat, P. Nisenson

Influence of the Wave-front Correlation Function and Deterministic Wave-front Aberrations on the Speckle Image-Reconstruction Problem in the High-light-level Regime
J. Opt. Soc. Am., 71, 1390-1402 (1981)

R. Barakat, P. Nisenson

The Effectiveness of Astronomical Speckle Transfer Function Reweighting Algorithms
Opt. Comm., 45, 311-316 (1983)

A. Baranne, A. Blazit, R. Foy, F. Thevenin
Multi-Slit Spectroscopy: ESSEFEM + CP40, *Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry"*, 1135 (1988)

N. B. Baranova, A. V. Mamaev, N. F. Philipetsky, V. V. Shkunov, B. Y. Zel'dovitch
Wave-front Dislocations: Topological Limitations for Adaptive Systems With Phase Conjugation
J. Opt. Soc. Am., 73, 525-528 (1983)

M. J. Barlow, B. L. Morgan, C. Standley, H. Vine
The Determination of the Mass of a Magellanic Cloud Planetary Nebula by Speckle Interferometry
M. N. R. A. S., 223, 151-172 (1986)

M. E. Barnett, G. Parry
Photon Noise Limitations on the Recovery of Stellar Images by Speckle Interferometry
Opt. Comm., 21, 60-62 (1977)

H. Bartelt, A. W. Lohmann, B. Wirnitzer
Phase and Amplitude Recovery from Bispectra
Appl. Opt., 23, 3121-3129 (1984)

J. H. T. Bates, W. R. Fright, R. H. T. Bates
Wiener Filtering and Cleaning in a General Image Processing Context
M. N. R. A. S., 211, 1-14 (1984)

R. H. T. Bates
Contributions to the Theory of Intensity Interferometry
M. N. R. A. S., 142, 413-428 (1969)

R. H. T. Bates, P. J. Napier
Identification and Removal of Phase Errors in Interferometry
M. N. R. A. S., 158, 405-424 (1972)

R. H. T. Bates, P. T. Gough, P. J. Napier
Speckle Interferometry Gives Holograms of Multiple Star Systems
Astron. and Astrophys., 22, 319-320 (1973)

R. H. T. Bates, P. T. Gough
New Outlook on Processing Radiation Received from Objects Viewed through Randomly Fluctuating Media
IEEE Trans. Comp. C-24, 449-456 (1975)

R. H. T. Bates
A Stochastic Image Restoration Procedure
Opt. Comm., 19, 240-244 (1976)

R. H. T. Bates
Recovery of Fringe Visibility from Recorded Speckle Images Quantised to Two Levels
M. N. R. A. S., 181, 365-374 (1977)

R. H. T. Bates, M. J. McDonnell, P. T. Gough

Imaging through Randomly Fluctuating Media

IEEE Trans., 65, 138-143 (1977)

R. H. T. Bates

Fringe Visibility May Uniquely Define Brightness Distributions

Astron. Astrophys., 70, L27-L29 (1978)

R. H. T. Bates, M. O. Milner, G. I. Lund, A. D. Seager

Towards High Resolution Imaging by Speckle Interferometry

Opt. Comm., 26, 22-26 (1978)

R. H. T. Bates, M. O. Milner

Towards Imaging of Star Clusters by Speckle Interferometry

Proc. IAU Coll. No. 49, "Image Formation from Coherence Functions in Astronomy", 187-193 (1979)

R. H. T. Bates, F. M. Cady

Towards True Imaging by Wideband Speckle Interferometry

Opt. Comm., 32, 365-369 (1980)

R. H. T. Bates

Astronomical Speckle Imaging

Physics Reports, 90, 203-297 (1982)

R. H. T. Bates

Fourier Phase Problems are Uniquely Solvable in more than One Dimension. I. Underlying Theory

Optik, 61, 247-262 (1982)

R. H. T. Bates, W. R. Fright

Towards Imaging with a Speckle Interferometric Optical Synthesis Telescope

M. N. R. A. S., 198, 1017-1031 (1982)

R. H. T. Bates, B. R. Hunt, B. S. Robinson, W. R. Fright, P. T. Gough

Aspects of Speckle Interferometric Imaging

Proc. Conf., 214, 164-168 (1982)

R. H. T. Bates, W. R. Fright

Composite Two-dimensional Phase Restoration Procedure

J. Opt. Soc. Am., 73, 358-365 (1983)

R. H. T. Bates, W. R. Fright, F. M. Cady, G. J. Berzins

Speckle Processing, Shift-and-add, and Compensating for Instrument Aberrations

Proc. SPIE, 373, 197-202 (1984)

R. H. T. Bates, W. R. Fright

Reconstructing Images from their Fourier Intensities

Advances in Computer Vision and Image Processing, 1, T. S. Huang, (JAI Press), 227-264 (1984)

R. H. T. Bates

Uniqueness of Solutions to Two-dimensional Fourier Phase Problems for Localised and Positive Images

Advances in Computer Vision and Image Processing, 1, T. S. Huang, (JAI Press), 205-217 (1984)

R. H. T. Bates, W. R. Fright, W. A. Norton
Phase Restoration is Successful in the Optical as Well as the Computational Laboratory
Proc. URSI/IAU Symp., "Indirect Imaging", 119-124 (1984)

R. H. T. Bates, A. M. Sinton, R. A. Minard
Generalisation of Shift-and-add Imaging
Proc. SPIE, 556, 263-269 (1985)

R. H. T. Bates, D. G. H. Tan
Fourier Phase Retrieval When the Image is Complex
Proc. SPIE, 558, 54-59 (1985)

R. H. T. Bates
Optical Astronomical Speckle Imaging
Proc. URSI/IAU Symp., "Indirect Imaging", 91-98 (1984)

R. H. T. Bates, M. J. McDonnell
Image Restoration and Reconstruction, Clarendon Press, Oxford (England) (1986)

R. H. T. Bates, D. Mnyama
The Status of Practical Fourier Phase Retrieval
Advances in Electronics and Electron Physics, 67, 1-64 (1986)

R. H. T. Bates, R. G. Lane
Automatic Deconvolution and Phase Retrieval
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 71-73 (1987)

R. H. T. Bates
Aspects of the Erlangen Bispectrum
Optik (1987)

R. H. T. Bates, B. L. K. Davey
Computationally-Cost-Effective Speckle Imaging
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 219-222 (1987)

R. H. T. Bates, B. L. K. Davey
Towards Making Shift-and-add a Versatile Speckle Imaging Technique
Proc. SPIE, 828, 87-94 (1987)

R. H. T. Bates, R. G. Lane
Automatic Deconvolution and Phase Retrieval
Proc. SPIE, 828, 158-164 (1987)

R. H. T. Bates
Twenty Years of Image Processing at Canterbury
Trans. Inst. Prof. Engrs. N. Z., 14 (EMCh), 9-13 (1987)

R. H. T. Bates, W. R. Fright, P. H. Gardenier

Gerchberg-Saxton Phase Retrieval When Image Magnitude is Given only Approximately
Proc. SPIE, 828, 171-176 (1987)

R. H. T. Bates, B. L. K. Davey
Towards Making Shift-and-Add a Versatile Imaging Technique
Proc. SPIE, 828, 87 (1987)

R. H. T. Bates, W. R. Fright, P. H. Gardenier
Gerchberg-Saxton Phase Retrieval When Image Magnitude Given Only Approximately
Proc. SPIE, 828, 171 (1987)

R. H. T. Bates, R. G. Lane
Automatic Deconvolution and Phase Retrieval
Proc. SPIE, 828, 158 (1987)

R. Bates
A General Survey on Deconvolution Technics
Proc. NATO Advanced Study Institute, "Diffraction-Limited Imaging with Very Large Telescopes",
07 (1988)

B. de Batz, P. Granes, J. Gay, A. Journet
Heterodyne Detection of Arcturus at 10.6 Microns
Nature, 245, 8 (1973)

W. I. Beavers, W. D. Swift
Photoelectric Fringe Strength Measurement
Appl. Opt., 7, 1975-1979 (1968)

J. M. Beckers
Differential Speckle Interferometry
Proc. ICO-12 Conf., "Current Trends in Optics", 137 (1981)

J. M. Beckers, E. K. Hege
Experiments in Differential Speckle Interferometry
Proc. IAU Coll. No. 67, "Instrumentation for Astronomy with Large Optical Telescopes", 199-206
(1982)

J. M. Beckers
Differential Speckle Interferometry
Opt. Acta, 361-362 (1982)

J. M. Beckers
Differential Speckle Interferometry: A New Tool for Double Star Research
Proc. IAU Coll. No. 62, "Current Techniques in Double and Multiple Star Research", 165-175
(1983)

J. M. Beckers, E. K. Hege, P. A. Strittmatter
Optical Interferometry with the MMT
Proc. SPIE, 444, 85-92 (1983)

J. M. Beckers, E. K. Hege, H. P. Murphy
The Differential Speckle Interferometer

Proc. SPIE, 445, 462-468 (1983)

J. M. Beckers, E. K. Hege, F. J. Low, D. W. McCarthy, P. A. Strittmatter
The Use of the Multiple Mirror Telescope as a Phased Array
Proc. SPIE, 440, 136 (1983)

J. M. Beckers, E. K. Hege
The Use of the MMT for Interferometric Imaging
Proc. IAU Coll. No. 79, "Very Large Telescopes, Their Instrumentation and Programs", 279-293
(1984)

J. M. Beckers, Ker-Li Shu, S. Shaklan
Planning the National New Technology Telescope (NNTT). IV. Coalignment/cophasing System
Proc. SPIE, 628, 102-106 (1986)

J. M. Beckers
Field-of-view Considerations for Telescope Arrays
Proc. SPIE, 628, 255-260 (1986)

J. M. Beckers, F. Roddier, P. Eisenhardt, L. Goad, K. Shu
NOAO Infrared Adaptive Optics Program I: General Description
Proc. SPIE, 628, 290-297 (1986)

J. M. Beckers
Interferometric Capabilities of the NNTT
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 171-172 (1987)

J. M. Beckers
Plans for Coalignment and Cophasing of the Optics in the 15 Metres NNTT
Proc. SPIE, 608 (1987)

J. M. Beckers
High Resolution Imaging in the Infrared Using Adaptive Optics
Proc. Workshop, "Towards Understanding Galaxies at Large Redshift" (in press)

J. M. Beckers
Multiple Aperture Telescopes and Adaptive Optics in Astronomy
Proc. ICO-14 Conf. (in press)

J. M. Beckers
Interferometry with the MMT and NNTT
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 879 (1988)

J. M. Beckers, J. C. Christou, R. G. Probst, S. T. Ridgway, O. von der Luhe
First Results with the NOAO 2-D Speckle Camera for Infrared Wavelengths
Proc. ESO Conf. No. 29, "High-resolution Imaging by Interferometry", 393 (1988)

W. G. Bagnuolo, Jr.
Binary Star Intensity Ratios by the Fork Algorithm
Opt. Lett., 13, 907-909 (1988)

- W. J. Bagnuolo Jr., J. R. Sowell
Binary Star Speckle Photometry. I. The Colors and Spectral Types of the Capella Stars
Astron. J., 96, 1056-1060 (1988)
- S. Beckwith, B. Zuckerman, M. F. Skrutskie, H. M. Dyck
Discovery of Solar System-Size Halos Around Young Stars
Ap. J., 287, 793-800 (1984)
- S. Beckwith, A. I. Sargent, N. Z. Scoville, C. R. Masson, B. Zuckerman, T. G. Phillips
Small-Scale Structure of the Circumstellar Gas of HL Tauri and R Monocerotis
Ap. J., 309, 755-761 (1986)
- S. V. W. Beckwith, A. J. Sargent, C. D. Koresko, D. A. Weintraub
Tomographic Imaging of HL Tauri
Ap. J., 343, 393-399 (1989)
- D. R. Beddoes, J. C. Dainty, B. L. Morgan, R. J. Scaddan
Speckle Interferometry on the 2.5-m Isaac Newton Telescope
J. Opt. Soc. Am., 66, 1247-1251 (1976)
- J. W. Beletic
Comparison of Knox-Thompson and Bispectrum Algorithms for Reconstructing Phase of Complex Extended Objects
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 357 (1988)
- J. F. Belsher, D. L. Fried
Shear-speckle Imaging
Proc. S.P.I.E. No. 1351, in press (1990)
- P. Bely, F. Roddier
Concepts for a Large Telescope in Space with Interferometric Imaging
Proc. AIAA 24th Aerospace Sciences Meeting (1986)
- P. L. Bender
Effects of Ground Motions on Amplitude Interferometry
Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 5 (1979)
- G. P. Di Benedetto, Y. Rabbia
Accurate Angular Diameters and Effective Temperatures for Eleven Giants Cooler than K0 by Michelson Interferometry
Astron. Astrophys., 188, 114-124 (1987)
- D. Benitez, F. J. Fuentes, R. Navarro, J. J. Fuensalida, M., Nieto-Vesperinas
Reconstruction of One-Dimensional High Resolution IR Images
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 143 (1988)
- J. A. Benson, N. H. Turner, H. M. Dyck
10 μ m Speckle Interferometry Observations of Evolved Stars
Astron. J., 97, 1763-1765 (1989)
- M. J. Beran, A. M. Whitman
Effect of the Atmosphere on Measurement of Correlations of Intensity
-

Proc. SPIE, 828, 122-126 (1987)

M. J. Beran, A. M. Whitman
Effect of the Atmosphere on Measurement of Correlations of Intensity
Proc. SPIE, 828, 122 (1987)

H. M. Berenyi, M. A. Fiddy
Object Reconstruction of the Integer Field from Noisy Fourier Intensity Data
Opt. Comm., 59, 342-344 (1986)

H. M. Berenyi, C. L. Byrne, M. A. Fiddy
Estimation of Image Distributions from Limited Intensity Data
Proc. SPIE, 828, 177-183 (1987)

C. Bertout, J. Bouvier
Interferometric Imaging of Protoplanetary Disks Around Young Stars
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 69 (1988)

J. Bialetzki, A. W. Lohmann, G. P. Weigelt
Astro-speckle Interferometry with Multiple Mirror Telescopes
Optik, 53, 323-331 (1979)

J. Bialetzki, G. P. Weigelt
Speckle Interferometry Measurements of Astronomical Objects With Simulated Multiple Mirror Telescopes
Optik, 55, 199-206 (1980)

R. G. Bingham
The Two-Mirror Telescope (2MT)
Proc. IAU Coll. No. 79, "Very Large Telescopes, Their Instrumentation and Programs", 347-366 (1984)

A. Blazit, L. Koechlin, J. L. Oneto
On Line Digital Correlation of Photon Counting TV Images for Stellar Interferometry
Image Processing Techniques in Astronomy, ed. C. de Jager and H. Nieuwenhuijzen, Astronomy Institute of Utrecht, Netherlands, D. Reidel/Dordrecht (Holland), 79 1975

A. Blazit, D. Bonneau, L. Koechlin
Premiers Resultats d'Observation a l'Interferome Tre a Deux Telescopes
C. R. Acad. Sc. (Paris), 285 B, 149-152 (1977)

A. Blazit, D. Bonneau, L. Koechlin, A. Labeyrie
The Digital Speckle Interferometer: Preliminary Results on 59 Stars and 3C 273
Ap. J., 214, L79-L84 (1977)

A. Blazit, D. Bonneau, M. Josse, L. Koechlin, A. Labeyrie, J. L. Oneto
The Angular Diameters of Capella A and B from Two-Telescope Interferometry
Ap. J., 217, L55-L57 (1977)

A. Blazit, D. Bonneau, R. Foy
Speckle Interferometric Measurements of Binary Stars: IV
Astron. Astrophys. Suppl. Ser., 71, 57-62 (1987)

- E. E. Bloemhof, C. H. Townes, A. H. B. Vanderwyck
Diffraction-Limited Spatial Resolution of Circumstellar Dust Shells at 10 microns
Ap. J., 276, L21-L24 (1984)
- H. Bohm, A. W. Lohmann, G. P. Weigelt
Optical Processing of Statistical Data
Proc. SPIE, 232, 191-196 (1980)
- D. Bonneau, A. Labeyrie
Speckle Interferometry: Color Dependent Limb Darkening Evidence on Alpha Orionis and Omicron Ceti
Ap. J., 181, L1-L4 (1973)
- D. Bonneau, M. Josse, A. Labeyrie
Lock-in Image Subtraction: Detectability of Circumstellar Planets With the Large Space Telescope
Image Processing Techniques in Astronomy, D. Reidel, Holland (1975)
- D. Bonneau
Experience Acquisée en Interferométrie Optique à Deux Télescopes
J. Optics (Paris), 10, No. 6, 311-316 (1979)
- D. Bonneau
Orbital Inclination and Masses Newly Determined from the Triple System Algol
Astron. Astrophys., 80, L11-L12 (1979)
- D. Bonneau, R. Blazit, R. Foy, A. Labeyrie
Speckle Interferometric Measurements of Binary Stars
Astron. Astrophys. Suppl. Ser., 42, 185-188 (1980)
- D. Bonneau, R. Foy
Interferométrie au 3.60 m CFHT I. Résolution du Système Pluton-Charon
Astron. Astrophys., 92, L1-L4 (1980)
- D. Bonneau, M. Faucherre, L. Koechlin, F. Vakili
Observational Speckle Interferometry
Proc. SPIE, 243, 80-82 (1980)
- D. Bonneau, R. Foy
Speckle Interferometric Observations of Binary Systems with the Haute-Provence 1.93 m Telescope
Astron. Astrophys., 86, 295-298 (1980)
- D. Bonneau, L. Koechlin, J. L. Oneto, F. Vakili
Stellar Diameter Measurements by Two-telescope Interferometry in Optical Wavelengths
Astron. Astrophys., 103, 28-34 (1981)
- D. Bonneau, R. Foy, A. Blazit, A. Labeyrie
The Diameter of Mira
Astron. Astrophys., 106, 235-239 (1982)
-

- D. Bonneau, L. Koechlin
Observation of Multiple Stars with the Digital Speckle Interferometer
Proc. IAU Coll. No. 62, "Current Techniques in Double and Multiple Star Research", 154-155
(1983)
- D. Bonneau, J. M. Carquillat, J. L. Vidal
Observations d'Etoiles Doubles par Interferometrie des Tavelures au T2 m du Pic du Midi
Astron. Astrophys. Suppl. Ser., 58, 729-733 (1984)
- D. Bonneau, R. Foy
First Direct Measurements of the Diameters of the Large Satellites of Uranus and Neptune
Astron. Astrophys., 161, L12-L13 (1986)
- D. Bonneau, Y. Balega, A. Blazit, R. Foy, F. Vakili, J. L. Vidal
Speckle Interferometric Measurements of Binary Stars: III
Astron. Astrophys. Suppl. Ser., 65, 27-32 (1986)
- J. Borgnino, C. Aime, F. Martin, R. G. Petrov, G. Ricort, M. Lazrek
Polychromatic Transfer Functions in Stellar Speckle Interferometry
J. Opt. Soc. Am. A., 6, 244-251 (1989)
- I. Bosc
The New Optical Table of the G12T
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 735 (1988)
- P. Bourlon, P. Lena
Vibration Testing of Telescopes and Interferometers
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 787 (1988)
- B. J. Brames, J. C. Dainty
A Method of Determining Object Intensity Distributions in Stellar Speckle Interferometry
J. Opt. Soc. Am., 71, 1542-1545 (1981)
- B. J. Brames
Uniqueness and Other Aspects of the Optical Phase Problem
PhD Thesis (1985)
- B. J. Brames
Unique Phase Retrieval with Explicit Support Information
Opt. Lett., 11, 61-63 (1986)
- B. J. Brames
Sufficient Support Information to Ensure a Unique Solution to the Phase Problem
Proc. OSA Topical Meeting, "Signal Recovery & Synthesis II", 68-70 (1986)
- B. J. Brames
Exploring the Irreducible Support, Proc. OSA Topical Meeting, "Signal Recovery & Synthesis II",
71-74 (1986)
- B. J. Brames
Efficient Method of Support Reduction
Opt. Commun., 64, 333-337 (1987)
-

- J. B. Breckinridge
Coherence Interferometer and Astronomical Applications
Appl. Opt., 11, 2996-2998 (1972)
- J. B. Breckinridge
Two-dimensional White Light Coherence Interferometer
Appl. Opt., 13, 2760-2762 (1974)
- J. B. Breckinridge
Obtaining Information through the Atmosphere at the Diffraction Limit of a Large Aperture
J. Opt. Soc. Am., 65, 755-759 (1975)
- J. B. Breckinridge
Measurement of the Amplitude of Phase Excursions in the Earth's Atmosphere
J. Opt. Soc. Am., 66, 143-144 (1976)
- J. B. Breckinridge
Interference in Astronomical Speckle Patterns
J. Opt. Soc. Am., 66, 1240-1242 (1976)
- J. B. Breckinridge
A White-light Amplitude Interferometer With 180 Degree Rotational Shear
Optical Engr., 17, 156-159 (1978)
- J. B. Breckinridge
A Two-Dimensional White Light Amplitude Interferometer
Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 31 (1979)
- J. B. Breckinridge, H. A. McAlister, W. G. Robinson
Kitt Peak Speckle Camera
Appl. Opt., 18, 1034-1041 (1979)
- J. D. Bregman, U. J. Schwarz, C. M. de Vos, J. E. Noordam
Seeing Corrected Imaging Spectrometry with a Redundant Pupil Plane Interferometer
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 627 (1988)
- E. T. Bridges
Coherent Optical Adaptive Techniques
Appl. Opt., 13, 291-300 (1974)
- D. S. Brown
Imaging by Dilute Apertures in the Presence of Atmospheric Turbulence
Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths", 181-195 (1981)
- T. M. Brown
Reconstruction of Turbulence-Degraded Images Using Nonredundant Aperture Arrays
J. Opt. Soc. Am., 68, 883-889 (1978)
- W, P, Brown
Coherent Light Visibility Imaging
-

Proc. S.P.I.E. No. 1351, in press (1990)

Y. M. Bruck, L. G. Sodin
On the Ambiguity of the Image Reconstruction Problem
Opt. Comm., 30, 304-308 (1979)

Y. M. Bruck, L. G. Sodin
A Method for Processing Speckle Images Requiring no Reference Point Source
Astron. and Astrophys., 87, 188-191 (1980)

Y. M. Bruck, L. G. Sodin
Speckle Interferometry Image Reconstruction from the Fourier Transform Phase
J. Opt. Soc. Am. A., 1, 73 (1984)

R. K. Bryan, J. Skilling
Maximum Entropy Image Reconstruction from Phaseless Fourier Data
Opt. Acta, 33, 287-299 (1986)

A. Buffington, F. S. Crawford, R. A. Muller, A. J. Schwemin, R. G. Smits
Correction of Atmospheric Distortion With an Image-sharpening Telescope
J. Opt. Soc. Am., 67, 298-303 (1977)

A. Buffington, F. S. Crawford, R. A. Muller, C. D. Orth
First Observatory Results With an Image-sharpening Telescope
J. Opt. Soc. Am., 67, 304-305 (1977)

J. P. Burg
Maximum Entropy Spectral Analysis, 37th Ann. Intern. Meet. Soc. Explor. Geophys. (1967)

R. E. Burge, M. A. Fiddy, A. H. Greenaway, G. Ross
The Phase Problem
Proc. R. Soc. Lond. A., 350, 191-212 (1976)

B. F. Burke
Astronomical Interferometry on the Moon
Proc. Workshop: "Lunar Bases and Space Activities of the 21st Century, ed. W. W. Mendell, Lunar and Planetary Institute (Houston, TX), 281-291 (1985)

J. J. Burke, J. B. Breckinridge
Passive Imaging Through the Turbulent Atmosphere: Fundamental Limits on the Spatial Frequency Resolution of a Rotational Shearing
J. Opt. Soc. Am., 68, 67-77 (1978)

B. P. Burkhalter
Adaptive Phase Retrieval
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 411 (1988)

J. O. Burns
A Review of Recent Lunar Observatories Workshops
Proc. NASA Workshop "Astrophysics from the Moon", ed. M. Mumma and H. Smith, (Annapolis, MD Feb. 5, 1990), in press (1990)

D. F. Buscher

Aperture Masking and Speckle Masking: A Comparison of Their Signal-to-Noise Ratios
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 613 (1988)

C. L. Byrne, R. M. Fitzgerald, M. A. Fiddy, T. J. Hall, A. M. Darling

Image Restoration and Resolution Enhancement
J. Opt. Soc. Am., 73, 1481-1487 (1983)

C. L. Byrne, M. A. Fiddy

Reconstruction of Continuous Object Distributions from Fourier Magnitude
Proc. OSA Topical Meeting, "Signal Recovery & Synthesis II", 58-61 (1986)

C. L. Byrne, M. A. Fiddy

Estimation of Continuous Object Distribution from Limited Fourier Magnitude Data
J. Opt. Soc. Am. A., 4, 112-117 (1987)

F. M. Cady, R. H. T. Bates

Speckle Processing Gives Diffraction-limited True Images from Severely Aberrated Instruments
Opt. Lett., 5, 438-440 (1980)

F. M. Cady, R. H. T. Bates

The Simulation and Results of a New Speckle Image Processing Technique
Proc. IAU Coll. No. 62, "Current Techniques in Double and Multiple Star Research", 176-179 (1983)

M. P. Cagigal

Characterization of the Double-interval Probability Distribution as a Tool for Signal or Image Recovery
Opt. Lett., 13, 262-263 (1988)

M. Cagnet

Mesures Interferometriques des Diametres Apparents Stellaires
Opt. Comm., 8, 430-434 (1973)

N. P. Carleton

The IOTA Project
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 939 (1988)

L. Carrasco, A. Chelli, H. Zinnecker, I. Cruz-Gonzales, C. Perrier

Fast Scanning Slit Near Infrared Photometry of T Tauri Stars in Close Binaries: Elias 22 and Cham. I.
Proc UAI Conf., "V Reunion Regional Latinoamericana de Astronomia de la UAI" (1986)

J. N. Cederquist

Error Lower Bound for Phase Retrieval
Proc. OSA Topical Meeting, "Signal Recovery & Synthesis II", 64-67 (1986)

J. N. Cederquist, J. R. Fienup, J. C. Marron, R. G. Paxman

Design and Execution of a Phase Retrieval Demonstration Experiment
Proc. SPIE, 828, 190-194 (1987)

J. N. Cederquist, J. R. Fienup, C. C. Wackerman, S. R. Robinson, D. Kryskowski

Wave-front Phase Estimation from Fourier Intensity Measurements

J. Opt. Soc. Am. A., 6, 1020-1026 (1989)

A. A. Chalabaev, C. Perrier, P. Bouchet

Supernova 1987A in the Large Magellanic Cloud

IAU Circ., No. 4389 (1987)

A. Chelli, P. Lena, C. Roddier, F. Roddier, F. Sibille

Modulation Transfer Function for Infra-red Stellar Speckle Interferometry; Evidence for a Log-normal Statistic

Opt. Acta, 26, 583-595 (1979)

A. Chelli, P. Lena, F. Sibille

Angular Dimensions of Accreting Young Stars

Nature, 278, 143-146 (1979)

A. Chelli, C. Perrier, J. -M. Mariotti

Infrared Speckle Interferometry, Results, True Image Reconstruction and Instrumental Plans

Proc. Second ESO Infrared Workshop, 153-157 (1982)

A. Chelli, C. Perrier, Y. Biraud

One Dimensional High Resolution Image Reconstruction of Eta Carinae at 4.6 Microns with Speckle Data

Astron. Astrophys., 117, 199-204 (1983)

A. Chelli, C. Perrier, P. Lena

The Sub-Arc Second Structure of IRC2 at 5 Microns

Ap. J., 280, 163-169 (1984)

A. Chelli

Infrared Speckle Methods

Proc. IAU Coll. No. 79, "Very Large Telescopes, Their Instrumentation and Programs", 309-336 (1984)

A. Chelli, J. -M. Mariotti

Pupil Plane and Image Plane Interferometry at Optical Wavelengths: Visibility and Phase Analysis

Proc. SPIE, 556, 290-296 (1985)

A. Chelli, J. -M. Mariotti

Visibility and Phase Analysis for Image and Pupil Plane Interferometry at Optical Wavelengths

Astron. Astrophys., 157, 372-382 (1986)

A. Chelli, C. Perrier, I. Cruz-Gonzales, L. Carrasco

High Spatial Resolution IR Observations and Variability of the Nuclear Region of NGC 1068: Structure and Nature of the Inner 100 pc

Proc UAI Conf., "V Reunion Regional Latinoamericana de Astronomia de la UIA" (1986)

A. Chelli

Comparison Between Image Plane Phase Reconstruction Methods in Optical Interferometry

Proc UAI Conf., "V Reunion Regional Latinoamericana de Astronomia de la UIA" (1986)

A. Chelli

Comparison Between Image Plane Phase Reconstruction Methods in Optical Interferometry
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 75-78 (1987)

A. Chelli, C. Perrier, I. Cruz-Gonzales, L. Carrasco

High Spatial Resolution IR Observations and Variability of the Nuclear Region of NGC 1068: Structure and Nature of the Inner 100 pc
Astron. Astrophys., 177, 51-62 (1987)

A. Chelli, C. Perrier, I. Cruz-Gonzales, L. Carrasco

High Spatial Resolution IR Observations and Variability of the Nuclear Region of NGC 1068: Structure and Nature of the Inner 100 pc
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 253 (1987)

A. Chelli

Theoretical Performances of Phase Reconstruction Methods in Optical Interferometry
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 349 (1988)

A. Chelli

Merits of Phase Restoration Methods
Proc. NATO Advanced Study Institute, "Diffraction-Limited Imaging with Very Large Telescopes", 6 (1988)

A. Chelli, H. Zinneker, L. Carrasco, I. Cruz-Gonzales, C. Perrier

Infrared Companion to T Tauri Stars
Astron. Astrophys., 207, 46-54 (1988)

A. Y. S. Cheng, E. K. Hege, E. N. Hubbard, L. Goldberg, P. A. Strittmatter, W. J. Cocke

Diameter and Limb-Darkening Measures for Alpha Orionis
Ap. J., 309, 737-744 (1986)

J. C. Christou, S. P. Worden

The Diameter of Chi Cygni Given by Speckle Interferometry
A. J., 85, 302-304 (1980)

J. C. Christou

Imaging of Star Clusters From Speckle Interferometry
Opt. Comm., 37, 331-334 (1981)

J. C. Christou

Preliminary Measurements of the Size of the Isoplanatic Patch
Proc. Southwest Reg. Conf. Astron. Astrophys., 8, 73 (1982)

J. C. Christou, E. K. Hege, J. D. Freeman, P. A. Strittmatter

Speckle Image Reconstruction: Weighted Shift-and-add Analysis
Bull. Am. Ast. Soc., 16, 885 (abstract) (1984)

J. C. Christou, A. Y. S. Cheng, J. D. Freeman, E. K. Hege C. Roddier

Seeing Calibration of Optical Astronomical Speckle Interferometric Data"
A. J., 90, 2644-2651 (1985)

- J. C. Christou, E. K. Hege, J. D. Freeman, E. Ribak
Images from Astronomical Speckle Data: Weighted Shift-and-add Analysis
Proc. SPIE, 556, 255-262 (1985)
- J. C. Christou, E. K. Hege
Isoplanicity Measurements for Calibration of Speckle Holography Amplitudes
Opt. Comm., 58, 4-9 (1986)
- J. C. Christou, E. Ribak, E. K. Hege, J. D. Freeman
Images from Astronomical Speckle Data: Weighted Shift-and-add Analysis
Optical Engr., 25, 724-730 (1986)
- J. C. Christou, E. K. Hege, J. D. Freeman, E. Ribak
A Self-Calibrating Shift-and-Add Technique for Speckle Imaging
J. Opt. Soc. Am. A., 3, 204-209 (1986)
- J. C. Christou, J. D. Freeman, E. K. Hege
The Weighted Shift-and-Add Method, *Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques"*, 51-54 (1987)
- J. C. Christou, D. W. McCarthy, M. L. Cobb
Image Selection and Binning for Improved Atmospheric Calibration of Infrared Speckle Data
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 17-20 (1987)
- J. C. Christou, J. M. Beckers, F. Roddier, J. D. Freeman, D. W. McCarthy, M. L. Cobb, R. G. Probst
High Angular Resolution Infrared Imaging at NOAO
Proc. Honolulu Workshop, "Ground-based Astronomical Observations with Infrared Array Detectors" (1987)
- J. C. Christou, D. W. McCarthy, M. L. Cobb
Image Selection and Binning for Improved Atmospheric Calibration of Infrared Speckle Data
A. J., 94, 516-522 (1987)
- J. C. Christou, J. D. Freeman, F. Roddier, D. W. McCarthy, M. L. Cobb, S. B. Shaklan
Application of Bispectrum Analysis to Infrared Speckle Data
Proc. SPIE, 828, 32-39 (1987)
- J. C. Christou, J. C. Hebden, K. Hege
Multiwavelength Images of α Orionis
Ap. J., 327, 894-904 (1988)
- J. C. Christou, National Optical Astronomy Observatories; J. M. Beckers, European Southern Observatory (FRG); J. D. Freeman, Univ. of Arizona; S. T. Ridgway, R. G. Probst, National Optical Astronomy Observatories
Two-dimensional Infrared Astronomical Speckle Interferometry
Proc. SPIE, 976, 193 (1988)
- J. C. Christou
Application of Speckle Interferometry Techniques: Working with Real Data
-

- Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 97 (1988)*
- J. C. Christou, J. D. Freeman, D. W. McCarthy Jr., F. Roddier
Application of Speckle-Masking to 1-D Infrared Speckle Data: Modulus Recovery and Imaging
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 201 (1988)
- J. C. Christou, J. D. Freeman, F. Roddier, D. W. McCarthy Jr., M. L. Cobb, S. B. Shaklan
Application of Bispectrum Analysis to Infrared Speckle Data
Proc. SPIE, 828, 32 (1987)
- J. C. Christou, E. K. Hege, J. C. Hebden
Diffraction-Limited Imaging of Alpha Orionis
Proc. ESO Conf., No. 29, "High-Resolution Imaging by Interferometry", 527 (1988)
- J. C. Christou, J. Hebden, E. K. Hege
Multi-wavelength Images of Alpha Orionis
Ap. J. (in press)
- O. Citterio, G. Conti, G. P. Di Benedetto
Two-Telescope Michelson Stellar Interferometry at 2.2 Microns
Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths" (1981)
- B. G. Clark
An Efficient Implementation of the Algorithm "CLEAN"
Astron. Astrophys., 89, 377-378 (1980)
- L. D. Clark, Jr, M. Shao, M. Colavita
A Photon-camera Star Tracker for Stellar Interferometry
Proc. SPIE, 627, 838-845 (1986)
- M. L. Cobb, D. W. McCarthy
A Comparative Study of Deconvolution Techniques for Infrared Speckle Interferometry
Proc. SPIE, 627, 758-765 (1986)
- M. L. Cobb, D. W. McCarthy, J. F. Arens
Two Dimensional High Angular Resolution Infrared Imaging of Circumstellar Shells
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 241-244 (1987)
- M. L. Cobb, D. W. McCarthy
Fourier Inversion and Deconvolution Methods
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 197-200 (1987)
- M. L. Cobb, J. D. Fix
Infrared Speckle Interferometry and Imaging of Several OH/IH Stars
Ap. J., 315, 325-336 (1987)
- W. J. Cocke
Computer Simulation Comparisons of Speckle Image Reconstruction Techniques
Proc. SPIE, 231, 99-105 (1980)
-

W. J. Cocke, E. K. Hege, E. N. Hubbard, P. A. Strittmatter, S. P. Worden
An Image Reconstruction for Capella with the Steward Observatory/AFGL Intensified Video Speckle Interferometer
Proc. IAU Coll. No. 62, "Current Techniques in Double and Multiple Star Research" (1983)

W. J. Cocke
The Cauchy-Schwarz Inequality as a Constraint in Power Spectrum/Autocorrelation Analysis and Image Reconstruction
Proc. SPIE, 556, 46-49 (1985)

A. D. Code, J. Davis, R. C. Bless, R. Hanbury-Brown
Empirical Effective Temperatures and Bolometric Corrections for Early-type Stars
Ap. J., 203, 417-434 (1976)

R. H. Cohen
Space Exploration Initiative (SEI) Science Payloads: Descriptions and Delivery Requirements
Jet Propulsion Laboratory Report: JPL D-7281, (1990)

M. Colavita
The Multi-spectral Fringe Detector for the Mk III Astrometric Interferometer
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 125-128 (1987)

M. Colavita, M. Shao
Atmospheric Phase Measurements with the Mk II and Mk III Interferometers at Mt. Wilson
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 205-208 (1987)

M. M. Colavita, M. Shao
Photon-Starved Astrometric Measurements with a Large-Aperture Interferometer
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 833 (1988)

M. Colavita, M. Shao, D. H. Staelin
Atmospheric Phase Measurements with the Mark III Stellar Interferometer
Appl. Opt. (in press)

M. Colavita, M. Shao, D. H. Staelin
The Two-color Method for Optical Astrometry: Theory and Preliminary Measurements with the Mark III Stellar Interferometer
Appl. Opt. (in press)

T. W. Cole
A Fast Real-time Processor for Speckle Interferometry
Proc. Astron. Soc. Australia, 19-21 (1980)

P. Connes, C. Froehly, P. Facq
A Fiber-Linked Version of Project TRIO
Proc. ESA Colloq., "Kilometric Optical Arrays in Space", 49-62 (1985)

P. Connes, S. Shaklan, F. Roddier
A Fiber-Linked Ground-Based Array

Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 165-168 (1987)

P. Connes, F. Roddier, S. Shaklan, E. Ribak
Fiber Linked Telescope Arrays on the Ground and in Space
Proc. ESA Workshop, "Optical Interferometry in Space", 73-84 (1987)

P. Connes, R. Reynaud
Fiber Tests on a Radiotelescope
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 1117 (1988)

A. Connoly
ESA: Technological Research Activities on Lightweight Mirrors
Proc. ESA Workshop, "Optical Interferometry in Space", 103-110 (1987)

T. J. Cornwell
Is Jaynes' Maximum Entropy Principle Applicable to Image Reconstruction?
Proc. URSI/IAU Symp., "Indirect Imaging", 291-296 (1984)

T. J. Cornwell, K. F. Evans
A Simple Maximum Entropy Deconvolution Algorithm
Astron. Astrophys., 143, 77-83 (1985)

T. J. Cornwell
Deconvolution
NRAO Summer School, "Synthesis Imaging", 109-121 (1986)

T. J. Cornwell
Bi-spectrum Imaging in Radio Interferometry
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 161-164 (1987)

T. J. Cornwell
The Practice of Deconvolution
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 177-182 (1987)

T. J. Cornwell
Radio-interferometric Imaging of Weak Objects in Conditions of Poor Phase Stability: The Relationship Between Speckle Masking and Phase Closure Methods
Astron. Astrophys., 180, 269-274 (1987)

T. J. Cornwell
Imaging at Radio Wavelengths
Proc. ESA Workshop, "Optical Interferometry in Space", 31-36 (1987)

T. Cornwell
Image Restoration
Proc. NATO Advanced Study Institute, "Diffraction-Limited Imaging with Very Large Telescopes", 12 (1988)

T. J. Cornwell, R. A. Perley

Non-coplanar Baselines Effect in Interferometry
Proc. S.P.I.E. No. 1351, in press (1990)

J. P. Cortegianni, J. Gay, Y. Rabbia
Effets de la Turbulence Atmospherique et Possibilites de Correction en Detection Heterodyne Stellaire Infrarouge
J. Optics (Paris), 10, No. 6, 351-353 (1979)

J. P. Cortegianni, J. Gay, Y. Rabbia
Probability of Diffraction-limited Images in Infrared Through Turbulence - Experimental Results
Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths", 175-180 (1981)

C. E. Coulman
A Quantitative Treatment of Solar Seeing, II
Solar Phys., 34, 491-506 (1974)

C. E. Coulman
Quantitative Treatment of "Seeing" in Syst. Design of Solar Astr. Telescopes, Optical Instruments and Techniques, Hone-Dickinson (Oriel Press) (1978)

L. L. Cowie, A. Songaila
Atmospheric Isoplanatism and Astronomical Image Reconstruction on Mauna Kea
J. Opt. Soc. Am. A., 5, 1015-1022 (1988)

T. R. Crimmins, J. R. Fienup
Ambiguity of Phase Retrieval for Functions with Disconnected Support
J. Opt. Soc. Am., 71, 1026-1028 (1981)

T. R. Crimmins, J. R. Fienup
Uniqueness of Phase Retrieval for Functions with Sufficiently Disconnected Support
J. Opt. Soc. Am., 73, 218-221 (1983)

T. R. Crimmins
Phase Retrieval for Discrete Functions with Support Constraints
Proc. OSA Topical Meeting, "Signal Recovery & Synthesis II", 75-78 (1986)

P. Cruzalebes, G. Schumacher, F. Vakili, M. Dugue, L., Koechlin, Y. Rabbia
Optical Simulation of a 5 Apertures Spectro-Interferometer for Imaging
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 757 (1988)

P. Cruzalebes, G. Schumacher, J. -L. Starck
Phase Closure Imaging in Optical Aperture Synthesis
Proc. S.P.I.E. No. 1351, in press (1990)

R. B. Culver, P. A. Ianna, H. A. McAlister
The Binary System HR 6697
A. J. (in press)

H. Z. Cummins, H. L. Swinney
Light Beating Spectroscopy

Progress in Optics, 8, ed. North Holland 1970

D. G. Currie

Amplitude Interferometry and High Resolution Image Information

Proc. OSA Topical Meeting, "Optical Propagation Through Turbulence" (1974)

D. G. Currie, S. L. Knapp, K. M. Liewer

Four Stellar Diameter Measurements by a New Technique, Amplitude Interferometry

Ap. J., 187, 131-134 (1974)

D. G. Currie

Stellar Disk Diameter Measurements by Amplitude Interferometry

Tech. Rep. 76-125 (1976)

D. G. Currie

The Development, Fabrication and Astronomical Application of a Wide-Band Long Baseline Optical Amplitude Interferometer

Tech. Rep. 77-075 (1977)

D. G. Currie

Amplitude Interferometry on the Large Space Telescope

Tech. Rep. 77-056 (1977)

D. G. Currie

On Astrometric Applications of the Very Long Baseline Amplitude Interferometer

Proc. IAU Coll. No. 50, Paper 22 (1979)

D. G. Currie

On the Amplitude Interferometer Program at the University of Maryland

Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 7 (1979)

D. G. Currie, H. A. McAlister, T. J. Schneeberger, S. P. Worden

Using Small Aperture Interferometry to Detect Planets in Nearby Binary Star Systems

NASA Conf. Publication 2124 (1980)

D. G. Currie

Binary Star Observations with the Multi-aperture Amplitude Interferometer

Proc. IAU Coll. No. 62, "Current Techniques in Double and Multiple Star Research", 202-216 (1983)

D. G. Currie

The University of Maryland Program on Multi-aperture Amplitude Interferometry

Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 21-24 (1987)

D. G. Currie

University of Maryland Program on Multi-aperture Amplitude Interferometry

Proc. SPIE, 828, 102-107 (1987)

D. G. Currie

University of Maryland Program on Multi-aperture Amplitude Interferometry

Proc. SPIE, 828, 102 (1987)

- J. C. Dainty
Diffraction-limited Imaging of Stellar Objects Using Telescopes of Low Optical Quality
Opt. Comm., 7, 129-134 (1973)
- J. C. Dainty
The Transfer Function, Signal-to-noise Ratio and Limiting Magnitude in Stellar Speckle Interferometry
M. N. R. A. S., 169, 631-641 (1974)
- J. C. Dainty
Stellar Speckle Interferometry
Laser Speckle and Related Phenomena, Ch. 7., Springer-Verlag, Second Edition 1984 (1975)
- J. C. Dainty, R. J. Scaddan
Measurements of the Atmospheric Transfer Function at Mauna Kea, Hawaii
M. N. R. A. S., 170, 519-532 (1975)
- J. C. Dainty, J. R. Fienup
Phase Retrieval and Image Reconstruction for Astronomy
Image Recovery: Theory and Application, Academic Press (1975)
- J. C. Dainty
The Statistics of Speckle Patterns
Progress in Optics, 14, E. Wolfe (North-Holland) (1976)
- J. C. Dainty
Telescope Requirements for Speckle Interferometry
Proc. ESO/CERN Conf., "Optical Telescopes of the Future", 43-46 (1978)
- J. C. Dainty
Computer Simulations of Speckle Interferometry of Binary Stars in the Photon-counting Mode
M. N. R. A. S., 183, 223-226 (1978)
- J. C. Dainty, M. A. Fiddy, A. H. Greenaway
On the Danger of Applying Statistical Reconstruction Methods in the Case of Missing Phase Information
Proc. IAU Coll. No. 49, "Image Formation from Coherence Functions in Astronomy", 95-101 (1979)
- J. C. Dainty, A. H. Greenaway
Estimation of Spatial Power Spectra in Speckle Interferometry
J. Opt. Soc. Am., 69, 786-790 (1979)
- J. C. Dainty, A. H. Greenaway
The Signal-to-Noise Ratio in Speckle Interferometry
Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 23 (1979)
- J. C. Dainty
Speckle Interferometry in Astronomy
Symposium on Recent Advances in Astronomy, 5-11 (1981)
-

J. C. Dainty, D. R. Hennings, K. A. O'Donnell
Space-time Correlation of Stellar Speckle Patterns
J. Opt. Soc. Am., 71, 490-492 (1981)

J. C. Dainty, M. A. Fiddy
The Essential Role of Prior Knowledge in Phase Retrieval
Opt. Acta, 31, 325-330 (1984)

J. C. Dainty, J. L. Pipher, M. G. Lacasse, S. T. Ridgway
Spatially Resolved Infrared Observations of the Red Rectangle
Ap. J., 293, 530-536 (1985)

J. C. Dainty
Speckle Interferometry and Imaging
Proc. Florence Conf., "Optical and Millimetric Wave Propagation and Scattering in the Atmosphere", 51-54 (1986)

J. C. Dainty, M. J. Northcott
Imaging a Randomly Translating Object Using the Triple Correlation
Proc. OSA Topical Meeting, "Quantum-Limited Imaging and Image Processing", 102-105 (1986)

J. C. Dainty, M. J. Northcott
Imaging a Randomly Translating Object at Low Light Levels Using the Triple Correlation
Opt. Comm., 58, 11-14 (1986)

J. C. Dainty
Speckle Imaging Techniques
Proc. SPIE, 828, 2-7 (1987)

J. C. Dainty, D. N. Qu, M. J. Northcott
Photon Correlation of Images Through Turbulence
Proc. SPIE, 976, Imperial College, 168 (1988)

L. Dame
New High Resolution Phase Conjugated Optical Correctors for Diffraction Limited Applications
Proc. SPIE, 679, 177-180 (1986)

L. Dame, C. Aime, M. Faucherre, J. Heyvaerts
Solar Interferometry with a 4-Aperture Non-redundant and Stabilised Network
Proc. ESA Workshop, "Optical Interferometry in Space", 189-196 (1987)

L. Dame, M. Faucherre
Performances of an Actively Stabilized Interferometer (ASSI): Faint Magnitudes, Low Fringe Contrast Measurements and Operationality
Proc. ESA Workshop, "Optical Interferometry in Space", 205-216 (1987)

L. Dame, M. Faucherre, G. Bourdet, Y. Rabbia, F. Vakili, G. Schumacher, Ph. Boutry, M. Decaudin, D. Dube, G. Jegoudez, H. Lagardere, J. -P. Maillard, B. Moreau, G. Terrier
Active Stabilization in Stellar Interferometry (ASSI): State of the Art at Cerga/I2T
Proc. ESA Workshop, "Optical Interferometry in Space" (1987)

- L. Dame, M. Faucherre, G. Bourdet, M. Decaudin, G., Jegoudez, Y. Rabbia, G. Aubry, G. Passedat
Active Stabilization in Stellar Interferometry (ASSI): Progress Report on the Two Bandpass Fringe Tracking Interferometer
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 1079 (1988)
- W. C. Danchi, A. Arthur, R. Fulton, M. Peck, B. Sadoulet, E. C. Sutton, C. H. Townes, R. H. Weitzman
A High Precision Telescope Pointing System
Proc. SPIE, 628, 422-428 (1986)
- W. C. Danchi, M. Bester, C. H. Townes
The U. C. Berkeley Infrared Heterodyne Interferometer
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 867 (1988)
- A. M. Darling
Blind Deconvolution for Referenceless Speckle Imaging
Proc. S.P.I.E. No. 1351, in press (1990)
- B. L. K. Davey, A. M. Sinton, R. H. T. Bates
Zero-and-add
Optical Engr., 25, 765-771 (1986)
- B. L. K. Davey, W. J. Cocke, R. H. T. Bates, D. W. McCarthy, Jr., J. C. Christou, M. L. Cobb
Infrared Speckle Observations of the Binary Ross 614AB: Combined Shift-and-add and Zero-and-add Analysis
Astron. J., 98, 1040-1048 (1989)
- C. L. Davies
The Use of a CCD in the Reduction of Speckle Interferometry Data
Proc. Conf., "Photoelectronic Imaging Devices" (1978)
- J. Davis, D. C. Morton, L. R. Allen, R. Hanbury-Brown
The Angular Diameter and Effective Temperature of Zeta Puppis
M. N. R. A. S., 150, 45-54 (1970)
- J. Davis
The Determination of Angular Diameters of Stars
Highlights of Astronomy, 2, 713-720 (1971)
- J. Davis
A Proposed Successor to the Narrabri Stellar Intensity Interferometer
Multicolor Photometry and the Theoretical HR Diagram, A. G. D. Philip and D. S. Hayes, Dudley Observatory Report No. 9, 199-214 (1975)
- J. Davis
High Angular Resolution Stellar Interferometry
Proc. Astron. Soc. Australia, 3, 26-32 (1976)
- J. Davis
The Application of High Angular Resolution Stellar Interferometry to the Study of Single Objects in the Visual Region of the Spectrum
-

Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 1 (1979)

J. Davis

An 11 Metre Michelson Stellar Interferometer

New Zealand J. Science, 22, 451-455 (1979)

J. Davis

A Prototype 11 Meter Modern Michelson Stellar Interferometer

Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 14 (1979)

J. Davis, W. J. Tango, R. J. Thompson

Interferometric Alignment of Optical Surfaces and Rotational Axes

Appl. Opt., 21, No. 16, 2867-2868 (1982)

J. Davis

Long Baseline Interferometry and Binary Stars

Proc. IAU Coll. No. 62, "Current Techniques in Double and Multiple Star Research", 191-201 (1983)

J. Davis

Long Baseline Optical Interferometry

Proc. URSI/IAU Symp., "Indirect Imaging", 125-141 (1984)

J. Davis

Measuring stars with High Angular Resolution: Current Status and Future Prospects

Proc. IAU Symp. No. 111, "Calibration of Fundamental Stellar Quantities", 193-208 (1985)

J. Davis, W. J. Tango

The Sydney University 11.4 Metre Stellar Interferometer

Proc. Astron. Soc. Australia, 6(1), 34-38 (1985)

J. Davis, W. J. Tango

A New Very High Angular Resolution Stellar Interferometer

Proc. Astron. Soc. Australia, 6(1), 38-43 (1985)

J. Davis, W. J. Tango

New Determination of the Angular Diameter of Sirius

Nature, 323, 234-235 (1986)

J. Davis

The Sydney University Stellar Interferometry Programme: A Progress Report

Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques" (1987)

J. Davis

The Sydney University Stellar Interferometer

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 817 (1988)

R. Deron, J. C. Fontanella

Uncertainty on Phase Reconstruction Using the Knox-Thompson Algorithm

Proc. AAS/OSA Joint Topical Meeting, "Information Processing in Astronomy and Optics", FA11 (1983)

- R. Deron, J. C. Fontanella
Restauration d'Images Degradees par la Turbulence Atmospherique Selon la Methode de Knox et Thompson. Etude Theorique et Experimentale
J. Optics (Paris), 15, 15-23 (1984)
- H. V. Deighton, M. S. Scivier, M. A. Fiddy
Solution of the Two Dimensional Phase Retrieval Problem
Opt. Lett., 10, 250-251 (1985)
- P. H. Deitz
Image Information by Means of Speckle-Pattern Processing
J. Opt. Soc. Am., 65, 279-285 (1975)
- P. H. Deitz, P. F. Carlson
Spatial Irradiance Interferometry with Sources of Arbitrary Symmetry
J. Opt. Soc. Am., 64, 11-17 (1974)
- P. H. Deitz, P. F. Carlson
Intensity Interferometry in the Spatial Domain
J. Opt. Soc. Am., 63, 274-280 (1973)
- G. Di Benedetto, G. Conti, O. Citterio, E. Mattaini, L. Koechlin
Preliminary Results of Direct Michelson Interferometry at 2.2 Microns With Two Telescopes on a Base Line of 12-m
Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s", 1006-1012 (1980)
- G. P. Di Benedetto, G. Conti
Stellar Diameter Measurements by Two-Aperture Interferometry in the Infrared
Ap. J., 268, 309-318 (1983)
- G. P. Di Benedetto
Long Baseline Michelson Stellar Interferometry in the Near Infrared
Astron. Astrophys., 148, 169-175 (1985)
- G. P. Di Benedetto, R. Foy
The Angular Diameter and the Effective Temperature of Arcturus from Michelson Interferometry
Astron. Astrophys., 166, 204-210 (1986)
- J. D. Dorren, M. J. Siah, E. F. Guinan, G. P. McCook
Starspots on V711 Tauri (HR 1099)
A. J., 86, 572-582 (1981)
- P. Downes
Interferometric Image Restoration
Proc. ESO Workshop 24, "Second workshop on the ESO Very Large Telescope", 205-214 (1986)
- D. Downes
Fourier Sampling with Telescope Arrays
Proc. NATO Advanced Study Institute, "Diffraction-Limited Imaging with Very Large Telescopes", 03 (1988)
-

D. Dravins

Possible Applications of Long-baseline Intensity Interferometry

Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths", 295-304 (1981)

D. Dravins

Measurements of Photon Statistics with a Nanosecond Resolution

Proc. IAU Coll. No. 67, "Instrumentation for Astronomy with Large Optical Telescopes", 229-237 (1982)

P. Druesne, J. Borgnino, F. Martin, G. Ricort, C. Aime

Speckle-interferometric Study of the Solar Granulation from Centre to Limb

Astron. Astrophys., 217, 229-236 (1989)

J. D. Drummond, W. J. Cocke, E. K. Hege, P. A. Strittmatter, J. V. Lambert

Speckle Interferometry of Asteroids I. 433 Eros

Icarus, 61, 132-151 (1985)

J. D. Drummond, E. K. Hege, W. J. Cocke, J. D. Freeman, J. C. Christou, R. P. Binzel

Speckle Interferometry of Asteroids II. 532 Herculina

Icarus, 61, 232-240 (1985)

J. D. Drummond, E. K. Hege

Speckle Interferometry of Asteroids III. 511 Davida and Its Photometry

Icarus, 67, 251-263 (1986)

J. D. Drummond, E. K. Hege, A. Eckart

Knox-Thompson Images of 4 Vesta

Proc. SPIE, 828, 27-31 (1987)

J. D. Drummond, E. K. Hege, A. Eckart

Knox-Thompson Images of 4 Vesta

Proc. SPIE, 828 (1987)

J. Drummond, A. Eckart, E. K. Hege

Reconstructed Images of 4 Vesta

Proc. ESO Conf., No. 29, "High-Resolution Imaging by Interferometry", 519 (1988)

V. N. Dudinov, V. V. Konichek, S. G. Kuz'menkov, V. S. Tsvetkova, V. S. Rylov, L. V.

Gyavgyanzen, V. N. Erokhin

Speckle Interferometry with the BTA Telescope

Proc. IAU Coll. No. 67, "Instrumentation for Astronomy with Large Optical Telescopes", 191-198 (1982)

H. M. Dyck, T. Simon, B. Zuckerman

Discovery of an Infrared Companion to T Tauri

Ap. J., 255, L103-L106 (1982)

H. M. Dyck, R. R. Howell

Speckle Interferometry of Molecular Cloud Sources at 4.8 Microns

A. J., 87, 400-405 (1982)

- H. M. Dyck, S. Beckwith, B. Zuckerman
Speckle Interferometry of IRC+10216 in the Fundamental Vibration-Rotation Lines of CO
Ap. J., 271, L79-L83 (1983)
- H. M. Dyck, T. Simon, R. D. Wolstencroft
The Infrared Dust Shell Around the WC9 Star Ve 2-45
Ap. J., 277, 675-677 (1984)
- H. M. Dyck, B. Zuckerman, C. Leinert, S. Beckwith
Near-Infrared Speckle Interferometry of Evolved Stars and Bipolar Nebulae
Ap. J., 287, 801-813 (1984)
- H. M. Dyck, R. R. Howell
Astronomical Speckle Interferometry in the Infrared
Proc. SPIE, 556, 274-278 (1985)
- H. M. Dyck, J. A. Benson
IRMA: A Multiple-Telescope Interferometer
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 1015 (1988)
- F. J. Dyson
Photon Noise and Atmospheric Noise in Active Optical Systems
J. Opt. Soc. Am., 65, 551-558 (1975)
- J. Ebersberger, G. P. Weigelt
Speckle Interferometry and Speckle Holography with the 1.5 and 3.6-M ESO Telescopes
The Messenger, 18, 24-27 (1979)
- J. Ebersberger, G. P. Weigelt
Isoplanicity and Life Time of Stellar Speckle Interferograms
Opt. Acta, 32, 793-801 (1985)
- J. Ebersberger, G. P. Weigelt, R. B. Orellana
Speckle Interferometry of Spectroscopic and Hyades Binary Stars
Astron. Astrophys. Suppl. Ser., 64, 131-133 (1986)
- S. Ebstein
Digital Recording on Video Cassette
Rev. Sci. Instrum., 54, 883-885 (1983)
- S. Ebstein
Signal-to-Noise Ratio in Photon Counting Speckle Interferometry with Real Detectors
Proc. OSA Topical Meeting, "Quantum-limited Imaging and Image Processing", 32-35 (1986)
- S. Ebstein
Stellar Speckle Interferometry Energy Spectrum Recovered by Convex Projections
Appl. Opt., 1530-1536 (1987)
- S. M. Ebstein, D. Korff
Speckle Interferometry and Maximum Probability Methods
Proc. SPIE, 828, 73-80 (1987)

- S. H. Ebstein, N. P. Carleton, C. Papaliolios
Speckle Imaging of NGC 1068 and NGC 4151 in the [O III] 5007 A Line and Nearby Continuum
Ap. J., 336, 103-111 (1989)
- M. Elbaum, J. Nowakowski, M. Wlodawski
Image Reconstruction from Interferograms of Laser-illuminated Complex Targets
Proc. S.P.I.E. No. 1351, in press (1990)
- J. L. Elliot, I. S. Glass
A Quantitative Fringe Detector for Stellar Interferometry
A. J., 75, 1123-1132 (1970)
- A. Englander
Probabilistic Diffraction Limited Imaging Through Turbulence
Opt. Engr., 22, 145-148 (1983)
- ESO
Interferometric Imaging With the Very Large Telescope, Final Report Presented by the ESO/VLT Working Group on Interferometry
VLT Report No. 49 (1986)
- ESO
Proposal for the Construction of the 16-m Very Large Telescope (1987)
- L. E. Estes, R. Boucher
Temporal-and Spatial-Intensity-Interferometer Imaging Through a Random Medium
J. Opt. Soc. Am., 65, 760-764 (1975)
- R. L. Fante
Some Results on the Imaging Objects in a Turbulent Medium
Afcr1-Tr-75-0546 (1975)
- R. L. Fante
Some Results on the Imaging of Incoherent Sources Through Turbulence
J. Opt. Soc. Am., 66, 574-580 (1976)
- R. L. Fante
Comments on a Method for Processing Stellar Speckle Data
J. Opt. Soc. Am., 69, 1394-1396 (1979)
- M. Faucherre, D. Bonneau
Giant Stars Angular Diameters Measurements with the Stellar Interferometer at CERGA
Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths", 247-251 (1981)
- M. Faucherre, D. Bonneau, L. Koechlin, F. Vakili
Interferometrie Stellaire: Diametres et Temperatures Effectives de Cinq Geantes
Astron. Astrophys., 120, 263-268 (1983)
- M. Faucherre, M. G. Lacasse, P. Nisenson, R. D. Reasenberg, M. Shao, R. V. Stachnik, W. A. Traub
-

A 50-meter Michelson Stellar Interferometer on a Space Platform

Bull. Am. Ast. Soc., 16, 793-796 (1984)

M. Faucherre, R. V. Stachnik, S. Aram

Numerical Experiments in Image Reconstruction

Proc. ESA Colloq., "Kilometric Optical Arrays in Space", 121-128 (1985)

M. Faucherre, L. Dame, R. V. Stachnik, W. A. Traub

A Test-bed for Space Interferometry: SPI

Proc. ESA Workshop, "Optical Interferometry in Space", 197-204 (1987)

M. Faucherre, L. Dame, M. Decaudin, P. Boutry, M., Chirouze, G. Jegoudez, H. Legardere, Y. Rabbia, G., Terrier, F. Vakili

Tilt Correction in Stabilized Interferometry: Difficulties and Remedies

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 1093 (1988)

M. Faucherre and H. Olthof

Aperture Synthesis and the Space Station : Are they Compatible? *Proc. Conf., "High Resolution Imaging by Interferometry"* (1988)

M. Faucherre, A. Greenaway, F. Merkle, J. E. Noordam, M. A. C. Perryman, F. Vakili, S. Volonte and G. P. Weigelt

Aperture Synthesis in Space : An Overview and Results from the ESA Study Group, *Proc. Conf. "Diffraction-limited Imaging with Very Large Telescopes"* (1989)

M. Faucherre

The Opportunity to Optimize Optical Aperture Synthesis Instrument Concepts, *Proc. Conf. "Physics and Astrophysics in the Space Station Era"* (1989)

M. Faucherre, F. Merkle, and F. Vakili

Beam Combination in Aperture Synthesis from Space : FOV Limitations and [u,v,] Plane Coverage Optimization, *Proc. Conf., "New Technologies for Astronomy"* (1989)

M. Faucherre, A. H. Greenaway, F. Merkle, J. E. Noordam, M. A. C. Perryman, M. Roussel, F. Vakili, S. Volonte and G. P. Weigelt

Aperture Synthesis in Space : Review of the Field and Trends, *Proc. Conf., "New Technologies for Astronomy"* (1989)

M. Faucherre, B. Delabre, P. Diericks and F. Merkle

Michelson versus Fizeau Type Beam Combination : Is There a Difference?, *Proc. S.P.I.E.*, 1237 (1990)

G. B. Feldkamp, J. R. Fienup

Noise Properties of Images Reconstructed from Fourier Modulus

Proc. SPIE, 231, 84-93 (1980)

H. A. Ferwerda

Phase Retrieval in Imaging

Proc. OSA Topical Meeting, "Signal Recovery & Synthesis II", 36-39 (1986)

H. A. Ferwerda

Phase Retrieval in Imaging

Appl. Opt., 27, 405-408 (1988)

M. A. Fiddy, G. Ross
Analytic Fourier Optics. The Encoding of Information by Complex Zeros
Opt. Acta, 26, 1139-1146 (1979)

M. A. Fiddy
The Phase Retrieval Problem
Proc. SPIE, 413, "Inverse Optics" (1983)

M. A. Fiddy, B. J. Brames, J. C. Dainty
Enforcing Irreducibility for Phase Retrieval in Two Dimensions
Opt. Lett., 8, 96-98 (1983)

M. A. Fiddy
Inversion of Optical Scattered Field Data
J. Phys. D., 19, 301-316 (1986)

M. A. Fiddy
The Role of Analyticity in Image Recovery
Image Recovery: Theory and Applications, ed. Stark, (Academic Press), Ch. 13 (1987)

J. R. Fienup
Reconstruction of an Object from the Modulus of Its Fourier Transform
Opt. Lett., 3, 27-29 (1978)

J. R. Fienup
Space Object Imaging Through the Turbulent Atmosphere
Opt. Engr., 18, 529-534 (1979)

J. R. Fienup
Iterative Method Applied to Image Reconstruction and to Computer-Generated Holograms
Optical Engr., 19, 297-305 (1980)

J. R. Fienup, G. B. Feldkamp
Astronomical Imaging By Processing Stellar Speckle Interferometry Data
Proc. SPIE, 243, 95-102 (1980)

J. R. Fienup
Image Reconstruction for Stellar Interferometry
Proc. ICO-12 Conf., "Current Trends in Optics", 95-102 (1981)

J. R. Fienup
Fourier Modulus Image Construction
RADC-TR-81-63 (1981)

J. R. Fienup
Reconstruction and Synthesis Applications of an Iterative Algorithm
Proc. SPIE, 373, 147-160 (1981)

J. R. Fienup
Phase Retrieval Algorithms: A Comparison

Appl. Opt., 21, 2758-2769 (1982)

J. R. Fienup, T. R. Crimmins, W. Holsztynski
Reconstruction of the Support of an Object from the Support of Its Autocorrelation
J. Opt. Soc. Am., 72, 610-624 (1982)

J. R. Fienup
Reconstruction of Objects Having Latent Reference Points
J. Opt. Soc. Am., 73, 1421-1426 (1983)

J. R. Fienup
Experimental Evidence of the Uniqueness of Phase Retrieval from Intensity Data
Proc. URSI/IAU Symp., "Indirect Imaging", 99-109 (1984)

J. R. Fienup
Phase Retrieval from a Single Intensity Distribution
Proc. ICO-13 Conf., "Optics in Modern Science and Technology", 606-609 (1984)

J. R. Fienup
Comparison of Phase Retrieval Algorithms
Advances in Computer Vision and Image Processing, "Image Reconstruction from Incomplete Observations", 191-225 (1984)

J. R. Fienup
Phase Retrieval Using Boundary Conditions
J. Opt. Soc. Am. A, 3, 284-288 (1986)

J. R. Fienup
Phase Retrieval: Algorithm Improvements, Uniqueness, and Complex Objects
Proc. OSA Topical Meeting, "Signal Recovery & Synthesis II", 40-43 (1986)

J. R. Fienup, C. C. Wackerman
Phase Retrieval Stagnation Problems and Solutions
J. Opt. Soc. Am. A, 3, 1897-1907 (1986)

J. R. Fienup
Phase Retrieval from Fourier Intensity Data
Proc. SPIE, 828, 13-18 (1987)

J. R. Fienup
Image Reconstruction from Fourier Modulus Samples
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 67-70 (1987)

J. R. Fienup
Phase Retrieval from Fourier Intensity Data
Proc. SPIE, 828, 13 (1987)

J. R. Fienup
Phase Retrieval from Fourier Intensity Data
Proc. SPIE, 828, 13 (1987)

J. R. Fienup, J. D. Gorman

Image Reconstruction for an Aberrated Amplitude Interferometer with a Partially Filled Aperature

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 293 (1988)

J. R. Fienup

Image Reconstruction Using the Phase Variance Algorithm

Proc. S.P.I.E. No. 1351, in press (1990)

W. S. Finsen

Interferometer Observation of Binary Stars

A. J., 69, 319-324 (1964)

W. S. Finsen

Twenty Years of Double-Star Interferometry and Its Lessons

Astrophys. and Space Sci., 11, 13-19 (1971)

J. D. Fix, M. L. Cobb

The Structure of Circumstellar Shells

Ap. J., 329, 290-298 (1988)

C. Fizeau

Rapport sur le prix Bordin

R. Acad. Sc. (Paris), 66, 932 (1868)

F. Fleischmann, F. Grieger, G. Weigelt

Optical 16-Telescope Interferometer at Erlangen, Proc. ESA Workshop, "Optical Interferometry in Space", 155-156 (1987)

J. C. Fontanella, A. Seve

The Modified Knox-Thompson Algorithm

Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 29-36 (1987)

J. C. Fontanella, J. Primot

Deconvolution from Wavefront Sensing

Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 209-214 (1987)

J. C. Fontanella, A. Seve

Reconstruction of Turbulence-degraded Images Using the Knox-Thompson Algorithm

J. Opt. Soc. Am. A., 4, 438-448 (1987)

R. Foy, A. Chelli, F. Sibille, P. Lena

Angular Diameter of IRC+10216, Mira, R. Cas and GL 2591 in the Near Infrared

Astron. Astrophys., 79, L5-L8 (1979)

R. Foy

Quelques Applications Astrophysiques de l'Interferometrie des Tavelures

J. Optics (Paris), 10, No. 6, 320-321 (1979)

R. Foy, D. Bonneau, A. Blazit

The Multiple QSO PG1115+08: A Fifth Component?

Astron. Astrophys., 149, L13-L16 (1985)

R. Foy, A. Labeyrie

Feasibility of Adaptive Telescope with Laser Probe

Astron. Astrophys., 152, L29-L31 (1985)

R. Foy

Amplitude Estimation from Speckle Interferometry

Proc. NATO Advanced Study Institute, "Diffraction-Limited Imaging with Very Large Telescopes", 7 (1988)

R. Foy, P. Brouillon, P. Lena, J. M. Mariotti, D. Plathner

The VISIR Interferometer Project

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 781 (1988)

J. D. Freeman, E. Ribak, J. C. Christou, E. K. Hege

Statistical Analysis of the Weighted Shift-and-add Image Reconstruction Technique

Proc. SPIE, 556, 279-283 (1985)

J. D. Freeman, J. C. Christou, F. Roddier, D. W. McCarthy, M. L. Cobb

Application of Triple Correlation to One-Dimensional Infrared Speckle Data

Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 47-50 (1987)

J. D. Freeman, J. C. Christou, D. W. McCarthy, M. L. Cobb

Comparison of Phase Retrieval Algorithms Applied to Infrared Astronomical Speckle Data

Proc. SPIE, 828, 40-46 (1987)

J. D. Freeman, J. C. Christou, D. W. McCarthy Jr.

A Comparison of Phase Retrieval Algorithms Applied to Simulated Astronomical Infrared Speckle Data

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 341 (1988)

J. D. Freeman, J. C. Christou, F. Roddier, D. W. McCarthy, M. L. Cobb

Application of Bispectrum Analysis for Phase Recovery from One-dimensional Infrared Speckle Data

J. Opt. Soc. Am. A., 5, 406-415 (1988)

L. C. de Freitas, M. Northcott, B. J. Brames, J. C. Dainty

Object Reconstruction from Photon-limited Centroided Data of Randomly Translating Images

Proc. SPIE, 828, 62-72 (1987)

L. C. de Freitas, J. C. Dainty

Centroiding as a Phase Closure Relationship

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 317 (1988)

L. C. de Freitas, J. C. Dainty

Object Reconstruction from Photon-limited Centroided Data of Randomly Translating Images

Opt. Lett., 13, 264-266 (1988)

D. L. Fried

Varieties of Isoplanatism

Proc. SPIE, 75, 20-29 (1976)

D. L. Fried

Least-square Fitting a Wave-front Distortion Estimate to an Array of Phase-difference Measurements

J. Opt. Soc. Am., 67, 370-375 (1977)

D. L. Fried

Noise in Speckle Interferometry and in Speckle Imagery

Report TR-79-331, The Optical Sciences Company (1979)

D. L. Fried

Angular Dependence of Atmospheric Turbulence Effect in Speckle Interferometry

Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 26 (1979)

D. L. Fried

The Nature of Atmospheric Turbulence Effects of Imaging and Pseudo-Imaging Systems, and Its Quantification

Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 4 (1979)

D. L. Fried

Angular Dependence of Atmospheric Turbulence Effect in Speckle Interferometry

J. Opt. Acta, 26, 597-613 (1979)

D. L. Fried

Analysis of Techniques for Imaging Through the Atmosphere

RADC-TR-78-285 (1979)

D. L. Fried

Post-detection Wavefront Distortion Compensation

Proc. SPIE, 828, 127-133 (1987)

B. R. Frieden

Restoring with Maximum Likelihood and Maximum Entropy

J. Opt. Soc. Am., 62, 511-518 (1972)

B. R. Frieden

On the Three M's of Image Enhancement: MAP, ME, and MW

Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 191-196 (1987)

W. R. Fright, R. H. T. Bates

Fourier Phase Problems are Uniquely Solvable in More than One Dimension. III: Computational Examples for Two Dimensions

Optik, 62, 219-230 (1982)

C. Froehly

Coherence and Interferometry Through Optical Fibers

Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths", 285-293 (1981)

- R. L. Frost, C. K. Rushforth, B. S. Baxter
Fast FFT-Based Algorithm for Phase Estimation in Speckle Imaging
Appl. Opt., 18, 2056-2061 (1979)
- J. J. Fuensalida, F. Ross
Proposal and Comparative Study of a Reducing Algorithm for Image Sharpening Techniques
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 469 (1988)
- F. J. Fuentes, R. Navarro, J. J. Fuensalida, M. Nieto Vesperinas
Reconstruction of High-Resolution Astronomical Images by Monte Carlo Techniques
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 455 (1988)
- K. L. Garden, R. H. T. Bates
Fourier Phase Problems are Uniquely Solvable in More than One Dimension. II: One-dimensional Considerations
Optik, 62, 131-142 (1982)
- P. H. Gardenier, C. A. Lim, D. G. H. Tan, R. H. T. Bates
Aperture Distribution Phase from Single Radiation Pattern Measurement via Gerchberg-Saxton Algorithm
Electronics Lett., 22, 113-115 (1986)
- J. Gay, A. Journet
Infrared Interferometry
Nature, 241, 32-33 (1973)
- J. Gay, A. Journet
An Infrared Astrometric Interferometer
Space Sci. Rev., 17, 687-688 (1975)
- J. Gay, A. Journet, S. Bensammar, B. de Batz
Application du Codage Multiplex a l'Interferometrie de Speckle en Astronomie Infrarouge
J. Optics (Paris), 11, No. 2, 111-117 (1980)
- J. Gay, Y. Rabbia
DUO: A Far Infrared Heterodyne Concept for Space Interferometry
Proc. ESA Colloq., "Kilometric Optical Arrays in Space", 171-176 (1985)
- J. Gay, D. Mekarnia
Principe d'Imagerie Spectrale par Interferometrie de Speckle et de Fourier
J. Optics (Paris), 18 (3), 119-132 (1987)
- J. Gay, D. Mekarnia
Infrared Interferometry at CERGA
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 811 (1988)
- R. W. Gerchberg, W. O. Saxton
A Practical Algorithm for the Determination of Phase from Image and Diffraction Plane Pictures
Optik, 35, 237-246 (1972)
- R. W. Gerchberg
-

- Super-resolution Through Error Energy Reduction**
Opt. Acta, 21, 709-720 (1974)
- D. Y. Gezari, A. Labeyrie, R. V. Stachnik
Speckle Interferometry: Diffraction Limited Measurements of Nine Stars with the 200-inch Telescope
Ap. J., 173, L1-L5 (1972)
- D. C. Ghiglia, G. A. Mastin
A Cellular Automata Method for Phase Unwrapping
J. Opt. Soc. Am. A., 4, 267-280 (1987)
- G. N. Gibson, J. Heyman, J. Lugten, W. Fitelson, C. H. Townes
Optical Path Length Fluctuations in the Atmosphere
Appl. Opt., 23, 4383-4389 (1984)
- L. Goad, F. Roddier, J. M. Beckers, P. Eisenhardt
NOAO Infrared Adaptive Optics Program III: Criteria for the Wavefront Sensor Selection
Proc. SPIE, 628, 305-313 (1986)
- M. J. E. Golay
Point Arrays Having Compact, Nonredundant Autocorrelations
J. Opt. Soc. Am., 61, 272-273 (1971)
- L. Goldberg, E. K. Hege, E. N. Hubbard, P. A. Strittmatter, W. J. Cocke
Speckle Interferometry of Alpha Ori: Preliminary Results
Proc. Second Cambridge Workshop, "Stars, Stellar Systems and the Sun", 131 (1982)
- J. D. Gonglewski, D. G. Voelz, D. C. Dayton, B. K. Spielbusch, R. E. Pierson
Proc. S.P.I.E. No. 1351, in press (1990)
- T. Gonsiorowski
A New Product for Photon-limited Imaging
Proc. SPIE, 627, 626-630 (1986)
- J. W. Goodman
Analogy Between Holography and Interferometric Image Formation
J. Opt. Soc. Am., 60, 506-509 (1970)
- J. W. Goodman, J. F. Belsher
Fundamental Limitations in Linear Invariant Restoration of Atmospherically Degraded Images
Proc. SPIE, 75, 141-154 (1976)
- J. W. Goodman, J. F. Belsher
Photon Limited Images and Their Restoration
Report TR-76-50, "ARPA Order No. 2646" (1976)
- J. W. Goodman, J. F. Belsher
Precompensation and Postcompensation of Photon Limited Degraded Images
Report TR-76-382, "ARPA Order No. 2646" (1976)
- J. W. Goodman, J. F. Belsher
-

Photon Limitations in Imaging and Image Restoration
Report TR-77-165, "ARPA Order No. 2646" (1977)

J. W. Goodman
Statistical Optics, J. Wiley & Sons (1985)

P. W. Gorham
Computational Aspects of Bispectral Analysis in Interferometric Imaging
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 191 (1988)

P. T. Gough, R. H. T. Bates
Speckle Holography
Opt. Acta, 21, 243-254 (1974)

Th. de Graauw, H. van de Stadt
Coherent Versus Incoherent Detection for Interferometry at Infrared Wavelengths
Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths", 273-283 (1981)

P. Granes, C. Thom, F. Vakili
First Measurements of Gamma Cassiopeiae's Hydrogen Envelope
Proc. IAU Coll. No. 92, "Physics of Be Stars" (1986)

D. J. Granrath
Maximum-magnitude Estimation of the Object's Power Spectrum in Stellar Speckle Interferometry
Opt. Lett., 9, 478-480 (1984)

D. J. Granrath, E. K. Hege, R. Greene, R. Kruger
Towards a Fast Triple Correlation Algorithm
Proc. SPIE, 828, 95-100 (1987)

D. J. Granrath
A Posteriority-based Constraint on the Phase Variance of Bispectral Coefficients
Optics Commun., 67, 107-111 (1988)

D. J. Granrath
Slicing Approach to Bispectrum Estimation
Proc. S.P.I.E. No. 1351, in press (1990)

A. H. Greenaway
Proposal for Phase Recovery from a Single Intensity Distribution
Opt. Lett., 1, 10-12 (1977)

A. H. Greenaway
The Potential of a Telescope Array for Long-Baseline Michelson Interferometry with Two or More Large Telescopes
Kitt Peak Report (1978)

A. H. Greenaway, J. C. Dainty
On Long-Baseline Amplitude Interferometers in Astronomical Applications
Opt. Acta, 25, 181-189 (1978)

- A. H. Greenaway
The Phase Problem in Astronomy
J. Optics (Paris), 10, No. 6, 308-310 (1979)
- A. H. Greenaway
The Signal-to-noise Ratio in Long Baseline Stellar Interferometry
Opt. Acta, 26, 1147-1171 (1979)
- A. H. Greenaway
The Interferometric Observing Efficiency of Arrays of Large Aperture Telescopes
Opt. Comm., 29, 279-283 (1979)
- A. H. Greenaway
Interferometry with Arrays of Large Aperture Telescopes
Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s", 755-785 (1980)
- A. H. Greenaway, J. C. Dainty
The Formal Equivalence Between Autocorrelation and Power Spectral Analysis of Photon-Limited Data
Opt. Comm., 35, 307-310 (1980)
- A. H. Greenaway, C. Roddier
A 180-degree Rotation Shearing Interferometer with Increased Optical Efficiency
Opt. Comm., 32, 48-50 (1980)
- A. H. Greenaway
Isoplanatism in Speckle Interferometry and Adaptive Optics
Proc. Sac. Peak. Conf., "Solar Instrumentation: What's Next?", 403-420 (1981)
- A. H. Greenaway
Diffraction Limited Pictures from a Single Turbulence-Degraded Image in Astronomy
Opt. Comm., 42, 157-161 (1982)
- A. H. Greenaway
Terrestrial Optical Aperture Synthesis Technique (TOAST)
Opt. Comm., 58, 149-154 (1986)
- A. H. Greenaway, D. P. Cheese, J. D. Bregman, J. E. Noordam
TOAST, a Terrestrial Optical Aperture Synthesis Technique
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 153-156 (1987)
- A. H. Greenaway
A Comparison of Interferometry from Space and Ground
Proc. ESA Workshop, "Optical Interferometry in Space", 5-10 (1987)
- F. Grieger, F. Fleischmann, G. Weigelt
Objective Prism Speckle Spectroscopy and Wideband Projection Speckle Spectroscopy
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 225 (1988)
- W. A. Grundmann, G. J. Odgers, E. H. Richardson
-

Interferometric Connection of the Canada-France-Hawaii 3.6 Metre Telescope and the United Kingdom 3.8 Metre Telescope on Mauna K
Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths" (1981)

S. F. Gull, G. J. Daniell
Image Reconstruction from Incomplete and Noisy Data
Nature, 272, 686-690 (1978)

M. Haas, Ch. Leinert
Phase Sorting in One-Dimensional Near Infrared Speckle Interferometry
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 441 (1988)

M. M. Hamy
Sur la Mesure Interferentielle des Petits Diametres. Application aux Satellites de Jupiter et a Vesta
Bull. Astron., 16, 257 (1899)

R. Hanbury-Brown, R. C. Jennison, M. K. Das Gupta
Apparent Angular Sizes of Discrete Radio Sources
Nature, 170, 1061-1063 (1952)

R. Hanbury-Brown, R. Q. Twiss
Correlation Between Photons in Two Coherent Beams of Light
Nature, 177, 27-29 (1956)

R. Hanbury-Brown, R. Q. Twiss
A Test of a New Type of Stellar Interferometer on Sirius
Nature, 178, 1046-1048 (1956)

R. Hanbury-Brown, R. Q. Twiss
The Question of Correlation Between Photons in Coherent Light Rays
Nature, 178, 1447-1450 (1956)

R. Hanbury-Brown, R. Q. Twiss
Interferometry of the Intensity Fluctuations in Light. I. Basic Theory: The Correlation Between Photons in Coherent Beams of Radiation
Proc. Roy. Soc. A, 242, 300-324 (1957)

R. Hanbury-Brown, R. Q. Twiss
Interferometry of the Intensity Fluctuations in Light. II. An Experimental Test of the Theory for Partially Coherent Light
Proc. Roy. Soc. A, 243, 291-319 (1957-1958)

R. Hanbury-Brown, R. Q. Twiss
Interferometry of the Intensity Fluctuations on Light. III. Applications to Astronomy
Proc. Roy. Soc. A, 248, 199-221 (1958)

R. Hanbury-Brown, R. Q. Twiss
Interferometry of the Intensity Fluctuations in Light. IV. A Test of an Intensity Interferometer on Sirius A
Proc. Roy. Soc. A, 248, 222-237 (1958)

- R. Hanbury-Brown, C. Hazard, J. Davis, L. R. Allen
A Preliminary Measurement of the Angular Diameter of Alpha Lyrae
Nature, 201, 1111-1112 (1964)
- R. Hanbury-Brown, J. Davis, L. R. Allen
The Stellar Interferometer at Narrabri Observatory-I: A Description of the Instrument and the Observational Procedure
M. N. R. A. S., 137, 375-392 (1967)
- R. Hanbury-Brown, J. Davis, L. R. Allen, J. M. Rome
The Stellar Interferometer at Narrabri Observatory-II: The Angular Diameters of 15 Stars
M. N. R. A. S., 393-417 (1967)
- R. Hanbury-Brown
Measurement of Stellar Diameters
Ann. Rev. Astron. Astrophys., 6, 1-38 (1968)
- R. Hanbury-Brown, J. Davis, L. R. Allen
The Effects of Cerenkov Light Pulses on a Stellar Intensity Interferometer
M. N. R. A. S., 146, 399-409 (1969)
- R. Hanbury-Brown, J. Davis, D. Herbison-Evans, L. R. Allen
A Study of Gamma 2 Velorum with a Stellar Intensity Interferometer
M. N. R. A. S., 148, 103-117 (1970)
- R. Hanbury-Brown, J. Davis, L. R. Allen
The Angular Diameters of 32 Stars
M. N. R. A. S., 167, 121-136 (1974)
- R. Hanbury-Brown, J. Davis, R. J. W. Lake, R. J. Thompson
The Effects of Limb Darkening on Measurements of Angular Size With an Intensity Interferometer
M. N. R. A. S., 167, 475-484 (1974)
- R. Hanbury-Brown, J. Davis, L. R. Allen
An Attempt to Detect a Corona Around Beta Orionis With an Intensity Interferometer Using Linearly Polarized Light
M. N. R. A. S., 168, 93-100 (1974)
- R. Hanbury-Brown
The Intensity Interferometer
Taylor and Francis (London) (1974)
- R. Hanbury-Brown
Intensity Interferometry Versus Michelson Interferometry
Proc. ESO/CERN Conf., "Optical Telescopes of the Future" (1978)
- R. Hanbury-Brown
A Review of the Achievements and Potential of Intensity Interferometry
Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 11 (1979)
-

R. Hanbury-Brown

The Development of Michelson and Intensity Long Baseline Interferometry

Proc. NRAO Workshop, "Serendipitous Discoveries in Radio Astronomy", 133-145 (1983)

R. Hanbury-Brown

Measuring the Sizes of Stars

J. Astrophys. Astr., 5(1), 19-30 (1984)

R. Hanbury-Brown

Measuring Stars With High Angular Resolution: Results from Narrabri Observatory

Proc. IAU Symp. No. 111, "Calibration of Fundamental Stellar Quantities", 185-192 (1985)

C. A. Haniff, C. D. Mackay, D. J. Titterton, D. Sivia, J. E. Baldwin, P. J. Warner

The First Images from Optical Aperture Synthesis

Nature, 328, 694-696 (1987)

C. A. Haniff

Milliarcsecond Ground-based Imaging With Single Telescopes

Proc. ESA Workshop, "Optical Interferometry in Space", 171-174 (1987)

J. W. Hardy, E. P. Wallner

Active Control for Michelson Stellar Interferometers

Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 10 (1979)

J. W. Hardy

A Michelson Solar Interferometer

Proc. Sac. Peak. Conf., "Solar Instrumentation: What's Next?", 228-235 (1981)

J. W. Hardy

Solar Isoplanatic Patch Measurements

Proc. Sac. Peak. Conf., "Solar Instrumentation: What's Next?", 421-433 (1981)

J. W. Hardy

Active Optics - Don't Build a Telescope Without It!

Proc. SPIE, 332, 252-259 (1982)

W. I. Hartkopf, H. A. McAlister

Binary Stars Unresolved by Speckle Interferometry III.

P. A. S. P., 96, 105 (1984)

W. J. Hartkopf, H. A. McAlister, D. J. Hutter

"Interferometric Measurements of Binary Stars with the GSU ICCD Speckle Camera"

Bull. Am. Ast. Soc., 17, 551 (1985)

W. J. Hartkopf

First Results from the New GSU CCD Speckle Camera

Proc. IAU Symposium No. 109, "Astrometric Techniques", 301 (1986)

W. I. Hartkopf, H. A. McAlister

Binary Star Orbits from Speckle Interferometry. II. Combined Visual/Speckle Orbits of 28 Close Systems

Astron. J., 98, 1014-1039 (1989)

- J. W. Harvey
Interferometry Applied to Visible Solar Features
Nature, 235, 90-91 (1972)
- J. W. Harvey, J. B. Breckinridge
Solar Speckle Interferometry
Ap. J., 182, L137-L139 (1973)
- J. W. Harvey, M. Schwarzschild
Photoelectric Speckle Interferometry of the Solar Granulation
Ap. J., 196, 221-226 (1975)
- M. H. Hayes, T. F. Quatieri
The Importance of Boundary Conditions in the Phase Retrieval
IEEE Trans. ASSP, 1545-1548 (1982)
- M. H. Hayes, T. F. Quatieri
Recursive Phase Retrieval Using Boundary Conditions
J. Opt. Soc. Am., 73, 1427-1433 (1983)
- D. A. Hayner, M. Dell'Eva, B. James
Aperture Synthesis Using Integrated Optical Devices
Proc. S.P.I.E. No. 1351, in press (1990)
- J. C. Hebden, B. L. Morgan, H. A. Vine
Speckle Interferometry Using a Hardwired Real-time Autocorrelator
Proc. SPIE 445, 477-483 (1983)
- J. C. Hebden, B. L. Morgan, C. Standley, H. A. Vine
Speckle Interferometry of Hipparcos Link Stars -II
M. N. R. A. S., 216, 447-451 (1985)
- J. C. Hebden, E. K. Hege, J. M. Beckers
Differential Speckle Imaging with the Cophased Multiple Mirror Telescope
Proc. SPIE. 556, 284-289 (1985)
- J. C. Hebden, E. K. Hege, J. M. Beckers
Differential Speckle Interferometry Using the MMT
Bull. Am. Ast. Soc., 16, 886 (1985)
- J. C. Hebden, B. L. Morgan, C. Standley, H. A. Vine
Speckle Interferometry of Hipparcos Link Stars - II
M. N. R. A. S., 216, 447-451 (1985)
- J. C. Hebden, E. K. Hege, J. M. Beckers
Differential Speckle Imaging with the Cophased Multiple Mirror Telescope
Optical Engr., 25, 712 (1986)
- J. C. Hebden, E. K. Hege, J. M. Beckers
Use of the Coherent MMT for Diffraction Limited Imaging
Proc. SPIE, 628, 42-49 (1986)
-

- J. C. Hebden, J. C. Christou, Y. S. Cheng, E. K. Hege, P. A. Strittmatter, J. M. Beckers, H. P. Murphy
Two Dimensional Images of Alpha Orionis
Ap. J., 309, 745-754 (1986)
- J. C. Hebden, A. Eckart, E. K. Hege
The H Alpha Chromosphere of Alpha Orionis
Ap. J., 314, 690-698 (1987)
- J. C. Hebden, E. K. Hege, A. Eckart
Images of the Envelope of Alpha Orionis
Proc. IAU Symposium No. 122, "Circumstellar Matter" (in press)
- E. K. Hege, W. J. Cocke, E. N. Hubbard, J. C. Christou, R. R. Radick
Possible Secondaries of Asteroids Found by Speckle Interferometry
Bull. Am. Ast. Soc., 12, 662 (abstract) (1980)
- E. K. Hege, E. N. Hubbard, P. A. Strittmatter
An Intensified Event-detecting Television System for Astronomical Speckle Interferometry
Proc. SPIE, 264, 29-33 (1980)
- E. K. Hege, E. N. Hubbard, P. A. Strittmatter, S. P. Worden
Speckle Interferometry Observations of the Triple QSO PG 1115+08
Ap. J., 248, L1-L3 (1981)
- E. K. Hege, P. A. Strittmatter, W. J. Cocke
The Steward Observatory Speckle Interferometry System
Proc. ICO-12 Conf., "Current Trends in Optics", 134 (1981)
- E. K. Hege, E. N. Hubbard, P. A. Strittmatter, W. J. Cocke
The Steward Observatory Speckle Interferometry System
Opt. Acta, 29, 701-715 (1982)
- E. K. Hege, E. N. Hubbard, J. Drummond, P. A. Strittmatter, S. P. Worden, T. Lauer
Speckle Interferometric Observations of Pluto and Charon
Icarus, 50, 72-81 (1982)
- E. K. Hege, P. A. Strittmatter, N. J. Woolf
Image Reconstruction Using Large Optical Telescopes
AFGL Report, AFGL-TR-82-0136 (1982)
- E. K. Hege, P. A. Strittmatter, N. J. Woolf
Investigations of High Resolution Imaging Through the Earth's Atmosphere Using Speckle Interferometry
AFGL Report, "AFGL-TR-84-0116" (1982)
- E. K. Hege, W. J. Cocke, P. A. Strittmatter, S. P. Worden
High-speed Digital Signal Processing for Speckle Interferometry
Proc. SPIE, 445, 469-476 (1983)
- E. K. Hege, E. N. Hubbard, W. J. Cocke, P. A. Strittmatter, S. P. Worden, R. R. Radick
-

Recovery of Intensity Information from Speckle Data

Proc. IAU Coll. No. 62, "Current Techniques in Double and Multiple Star Research", 185-190 (1983)

E. K. Hege, J. Drummond, A. Y. S. Cheng, J. C. Christou, P. A. Strittmatter

The Interpretation of Astronomical Speckle Interferometry Results

Bull. Am. Ast. Soc., 16, 903 (abstract) (1984)

E. K. Hege, J. Drummond

Pluto

IAU Circ. No. 3986 (1984)

E. K. Hege, J. M. Beckers, P. A. Strittmatter, D. W. McCarthy

The Multiple Mirror Telescope as a Phased Array Telescope

Appl. Opt., 24, 2565-2576 (1985)

E. K. Hege, J. C. Hebden, J. C. Christou

The H Alpha Envelope of Alpha Orionis

Proc. Fourth Cambridge Workshop, "Cool Stars, Stellar Systems and the Sun" (1985)

E. K. Hege, J. C. Christou

Real Time Signal Processing Requirements for Diffraction Limited Optical Imaging

Proc. Conf., "The Use of Supercomputers in Observational Astronomy" (1985)

E. K. Hege, A. Eckart, J. C. Christou

The Noise Bias Problem in Optical Speckle Imaging: Experience With a Real Detector

Proc. SPIE, 627, 772-779 (1986)

E. K. Hege, P. R. Vokac

Real-time Amplitude and Phase Integration for Diffraction-limited Imaging: Discrete Photon

Case *Proc. SPIE, 627, 780-786 1986*

E. K. Hege, D. W. McCarthy, J. C. Hebden, J. C. Christou

Phased Array Imaging With the Multiple Mirror Telescope *Proc. of the 1st ESO/NOAO*

Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques, 105-108 (1987)

E. K. Hege, D. W. McCarthy, J. C. Hebden, S. B. Shaklan, J. C. Christou

Diffraction-limited Imaging with the Coherently Cophased MMT

Proc. SPIE, 828, 20-26 (1987)

E. K. Hege, N. V. Strobel, E. Ribak, J. C. Christou

Experience with the Matched Filtered Weighted-shift-and-add Method

Proc. SPIE, 828, 54-61 (1987)

E. K. Hege, D. W. McCarthy Jr., J. C. Hebden, S. B. Shaklan, J. C. Christou

Diffraction-limited Imaging with the Coherently Cophased Multiple Mirror Telescope (MMT)

Proc. SPIE, 828, 8, 20 (1987)

E. K. Hege, N. V. Strobel, E. Ribak, J. C. Christou

Experience with the Matched Filtered Weighted-shift-and-add Method

Proc. SPIE, 828, 8, 54 (1987)

E. K. Hege

Shift-and-Add and Related First Order Methods

Proc. NATO Advanced Study Institute, "Diffraction-Limited Imaging with Very Large Telescopes",
5 (1988)

E. K. Hege

High Resolution Imaging Results

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 303 (1988)

E. K. Hege

Redeployment of the MMT: A Comounted Interferometric Imaging Array

Proc. ESO Conf. and Workshop #30, Very Large Telescopes and Their Instrumentation, 1, 805
(1988)

K. von der Heide

Image Restoration by the Method of Least Squares

Astron. Astrophys., 70, 777-784 (1978)

P. D. Henshaw, D. E. B. Lees

Electronically Agile Multiple Aperture Imager Receiver

Proc. SPIE, 828, 134-139 (1987)

P. D. Henshaw, N. R. Guivens, Jr.

Reduced Computation Algorithm for Phase Retrieval

Proc. S.P.I.E. No. 1351, in press (1990)

P. D. Henshaw, D. E. B. Lees, R. F. Dillon

Laser-speckle Data Collection Experiments

Proc. S.P.I.E. No. 1351, in press (1990)

D. Herbison-Evans

A Study of Alpha Virginis with an Intensity Interferometer

M. N. R. A. S., 151, 161-176 (1971)

N. Hetterich, G. Weigelt

Speckle Interferometry Observations of Pluto's Moon Charon

Astron. Astrophys., 125, 246-248 (1983)

J. Hogbom

Aperture Synthesis With a Non-regular Distribution of Interferometer Baselines

Ap. J. Suppl. Ser., 15, 417-426 (1974)

K. -H. Hofmann, G. Weigelt

Imaging Speckle Interferometer (ISI) in Space: Digital Simulations of Image Reconstruction and Photon Noise

Proc. ESA Colloq., "Kilometric Optical Arrays in Space", 121-128 (1985)

K. -H. Hofmann, G. Weigelt

Speckle Masking Observation of the Central Object in the Giant H II Region NGC 3603

Astron. Astrophys., 167, L15-L16 (1986)

- K. -H. Hofmann, G. Weigelt
High Angular Resolution Shearing Spectroscopy and Triple Shearing Interferometry
Appl. Opt., 25, 4280-4287 (1986)
- K. -H. Hofman, T. Reinheimer, G. Weigelt
Image Reconstruction from Long-Baseline Interferograms by Speckle Masking
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 157-160 (1987)
- K. -H. Hofmann, G. Weigelt
Triple Shearing Interferometry and Shearing Spectroscopy
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 83-84 (1987)
- K. -H. Hofmann, G. Weigelt
ISIS: Image Reconstruction Methods and Signal-to-noise Ratio Investigations
Proc. ESA Workshop, "Optical Interferometry in Space", 37-40 (1987)
- K. -H. Hofmann, G. Weigelt
Astronomical Speckle Masking: Image Reconstruction by Cross Triple Correlation
Appl. Opt., 26, 2011 (1987)
- K. -H. Hofmann
Signal-to-Noise Ratio of Images Reconstructed by Speckle Masking and by Phase Closure Imaging
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 575 (1988)
- K. -H. Hofmann, G. Weigelt
Triple Shearing Interferometry and Shearing Spectroscopy
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 267 (1988)
- K. G. Hofmann, G. Weigelt
Speckle Masking Observation of ν Carinae
Astron. Astrophys., 203, L21-122 (1988)
- K. -H. Hofmann, W. Mauder, G. Weigelt
Image Reconstruction from the Bispectrum Using an Iterative Algorithm and Applications of the Method to Astronomical Objects
Proc. S.P.I.E. No. 1351, in press (1990)
- M. A. Holdaway, J. F. C. Wardle
Maximum Entropy Imaging of Polarization in Very Long Baseline Interferometry
Proc. S.P.I.E. No. 1351, in press (1990)
- T. J. Holmes
Maximum-likelihood Image Restoration Adapted for Noncoherent Optical Imaging
J. Opt. Soc. Am. A., 5, 666-673 (1988)
- R. R. Howell
Near Infrared Interferometry of the Galilean Satellites
Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 17 (1978)
-

R. R. Howell, D. W. McCarthy, F. J. Low
One-Dimensional Infrared Speckle Interferometry
Ap. J., 251, L21-L25 (1981)

R. R. Howell, M. T. McGinn
Infrared Speckle Interferometry of Io: An Eruption in the Loki Region
Science, 230, 63-65 (1985)

R. R. Howell
Application of the Knox-Thompson Method to IR Observations
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 41-42 (1987)

R. R. Howell
Near IR Imaging of Io
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 251-252 (1987)

P. H. Hu, J. Stone, T. Stanley
Application of Zernike Polynomials to Atmospheric Propagation Problems
J. Opt. Soc. Am. A., 6, 1595-1608 (1989)

G. Hubbard, M. Reed, P. Strittmatter, E. K. Hege, S. P. Worden
Digital Speckle Interferometry to Measure the Angular Diameter of Faint Objects
Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 28 (1979)

G. Hubbard, E. K. Hege, M. Reed, P. Strittmatter, N. Woolf
Speckle Interferometry I: The Steward Observatory Speckle Camera
A. J., 84, 1437-1442 (1979)

R. H. Hudgin
Wave-front Reconstruction for Compensated Imaging
J. Opt. Soc. Am., 67, 375-378 (1977)

R. E. Hufnagel, N. R. Stanley
Modulation Transfer Function Associated with Image Transmission Through Turbulent Media
J. Opt. Soc. Am., 54, 52-61 (1964)

D. W. Hughes
Speckle Interferometry of Pluto (a news report)
Nature, 284, 123 (1980)

A. M. J. Huizer
A Procedure to Correct the Images of Astronomical Objects for the Distortions Due to Atmospheric Turbulence
Opt. Comm., 42, 226-230 (1982)

B. R. Hunt
Matrix Formulation of the Reconstruction of Phase Values from Phase Differences
J. Opt. Soc. Am., 69, 393-399 (1979)

B. R. Hunt, W. R. Fright, R. H. T. Bates

Analysis of the Shift and Add Method for Imaging through Turbulent Media

J. Opt. Soc. Am., 73, 456-465 (1983)

D. J. Hutter, K. J. Johnston, D. Mozurkewich, R. S. Simon, M. M. Colavita, Pan X. P., M. Shao,
B. E. Hines, D. H., Staelin, J. L. Hershey, J. A. Hughes, G. H. Kaplan

Preliminary Angular Diameter Measurements of 24 Stars from the Mark III Optical Interferometer

Proc. ESO Conf., No. 29, "High-Resolution Imaging by Interferometry," 855 (1988)

D. J. Hutter, K. J. Johnston, D. Mozurkewich, R. S. Simon, M. M. Colavita, Pan, X. P. and M.
Shao, B. E. Hines, D. H. Staelin, J. L. Hershey, J. A. Hughes, G. H. Kaplan

Angular Diameter Measurements of 24 Giant and Supergiant Stars from the Mark III Optical Interferometer

Ap. J., 340, 1103-1111 (1989)

P. S. Idell, J. R. Fienup

Imaging Correlography with Sparse Collecting Apertures

Proc. SPIE, 828, 140-148 (1987)

P. S. Idell, J. R. Fienup

Imaging Correlography with Sparse Collecting Apertures, *Proc. SPIE*, 828, 8, 140 (1987)

P. S. Idell

Object Reconstruction with Intensity Correlations

Proc. S.P.I.E. No. 1351, in press (1990)

S. Isobe, T. Atsushi, M. Noguchi, T. Hirayama

Optical Interferometer with High Frequency Photon Counter

Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s" (1980)

S. Isobe, J. Otsubo, T. Takemori, K. Fujita

Application of Microchannel Spatial Light Modulator to Speckle Observations

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry," 401 (1988)

S. Isobe

Optical Interferometer Between the JNLT and WMKT on Mauna Kea

Proc. ESO Conf. and Workshop #30, Very Large Telescopes and Their Instrumentation, 1, 781 (1988)

K. Itoh, Y. Ohtsuka

Spatial Coherence Measurements Through Turbulent Atmosphere Using a Computer Aided Interferometer

Opt. Comm., 36, 250-254 (1981)

K. Itoh, Y. Ohtsuka

Interferometric Image Reconstruction through the Turbulent Atmosphere

Appl. Opt., 20, 4239-4244 (1981)

K. Itoh

Analysis of the Phase Unwrapping Algorithm

Appl. Opt., 21, 2470-2470 (1982)

- K. Itoh, Y. Ohtsuka
Interferometric Imaging of a Thermally Luminous Two-dimensional Object
Opt. Comm., 48, 75-79 (1983)
- K. Itoh, Y. Ohtsuka
Phase Estimation Based on the Maximum Likelihood Criterion
Appl. Opt., 22, 3054-3057 (1983)
- K. Itoh, Y. Ohtsuka
Photon Noise Limitations in Wave-front Folding Interferometry
J. Opt. Soc. Am., 73, 479-485 (1983)
- K. Itoh, Y. Ohtsuka
Fourier-transform Spectral Imaging: Retrieval of Source Information from Three-dimensional Spatial Coherence
J. Opt. Soc. Am. A., 3, 94-100 (1986)
- D. Izraelevitz, J. S. Lim
New Algorithm for Closed Form Image Reconstruction from Fourier Transform Magnitude
Proc. OSA Topical Meeting, "Signal Recovery & Synthesis II", 54-57 (1986)
- R. C. Jennison
A Phase Sensitive Interferometer Technique for the Measurement of the Fourier Transforms of Spatial Brightness Distribution of Small Angular Extent
M. N. R. A. S., 118, 276-284 (1958)
- D. R. Jiang, C. Perrier, P. Lena
NGC 2024 No. 2: Infrared Speckle Interferometry and Nature of the Source
Astron. Astrophys., 135, 249-254 (1984)
- M. A. Johnson
An Infrared Stellar Interferometer Using Heterodyne Detection
Proc. OSA Ann. Meeting, 1350 (1972)
- M. A. Johnson, A. L. Betz, C. H. Townes
Ten Micron Heterodyne Stellar Interferometer
Phys. Rev. Lett., 33, 1617-1620 (1974)
- R. Johnson, G. J. M. Aitken
Statistical Properties of the Photon-address, Phase-gradient Algorithm
J. Opt. Soc. Am. A., 6, 56-61 (1989)
- D. L. Jones, D. J. Diner, V. G. Wright, R. P. Korechhoff, J. F., Appleby, E. N. Ribak, E. F. Tubbs, J. J. van Zyl
Imaging with Bracewell Interferometers
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 1057 (1988)
- S. Kadiri, C. Aime, G. Ricort
Speckle Interferometrie a Une Dimension en Astronomie: Etude des Fonctions de Transfert Instrument-atmosphere Obtenues par Analyse Statistique des Speckles Stellaires Fournis par un Objectif Rectangulaire
J. Optics (Paris), 12, 143-151 (1981)
-

S. Kadiri, R. Petrov, F. Martin, G. Ricort, J. Borgnino, C. Aime
Etude des Anisotropies des Fonctions de Transfert Optiques de Quelques Telescopes
J. Optics (Paris), 17, 67-76 (1986)

G. H. Kaplan, J. L. Hershey, J. A. Hughes, D. J. Hutter, K. J. Johnston, D. Mozurkewich, R. S. Simon, M. M. Colavita, M., Shao, B. E. Hines, D. H. Staelin
Astrometric Capabilities of the Mt. Wilson Mark III Optical Interferometer
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 841 (1988)

S. N. Karbelkar
On the Axiomatic Approach to the Maximum Entropy Principle of Inference
Pramana J. Phys., 26, No. 4, 301-310 (1986)

S. N. Karbelkar
Atmospheric Noise on the Bispectrum: Limiting Faintness for Binary Stars
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 217 (1988)

S. N. Karbelkar, R. Nityananda
Atmospheric Noise on the Bispectrum in Optical Speckle Interferometry
J. Astrophys. Astron., 8, No. 3, 271-274 (1987)

S. N. Karbelkar
Atmospheric Noise on the Bispectrum: Limiting Faintness for Binary Stars
NOAO-ESO Conference on "High Resolution Imaging by Interferometry", Garching, 217-223 (1988)

L. M. Karie, J. C. Dainty
Super-resolution Using the Gershberg Algorithm
Opt. Commun., 68, 11-17 (1988)

D. P. Karo, A. M. Schneiderman
Image Reconstruction in Speckle Interferometry
Proc. OSA Topical Meeting, "Imaging in Astronomy" (1975)

D. P. Karo, A. M. Schneiderman
Speckle Interferometry Lens-Atmosphere MTF Measurements
J. Opt. Soc. Am., 66, 1252-1256 (1976)

D. P. Karo, A. M. Schneiderman
Transfer Functions, Correlation Scales and Phase Retrieval in Speckle Interferometry
J. Opt. Soc. Am., 67, 1583-1587 (1977)

D. P. Karo, A. M. Schneiderman
Speckle Interferometry with Severely Aberrated Telescopes
J. Opt. Soc. Am., 67, 1277-1278 (1977)

D. P. Karo, A. M. Schneiderman
Speckle Interferometry at Finite Bandwidths and Exposure Times
J. Opt. Soc. Am., 68, 480-485 (1978)

D. P. Karo, A. M. Schneiderman

Laboratory Simulation of Stellar Speckle Interferometry

Appl. Opt., 18, 828-833 (1979)

M. Karovska, P. Nisenson, R. W. Noyes

On the Alpha Orionis Triple System

Ap. J., 308, 260-269 (1986)

M. Karovska, P. Nisenson, R. W. Noyes

Resolution of the Halo Binary Mu CAS at Optical Wavelengths

A. J., 92, 898-902 (1986)

M. Karovska, P. Nisenson, R. W. Noyes, C. Papaliolos

Supernova 1987A in the Large Magellanic Cloud

IAU Circ. No. 4382 1987

M. Karovska, L. Koehlin, P. Nisenson, C. Papaliolos, C. Standley

Measurements of the Diameter of the Large Magellanic Cloud Supernova SN 1987A

Ap. J., 340, 435-442 (1989)

C. E. KenKnight

Autocorrelation Methods to Obtain Diffraction Limited Resolution with Large Telescopes

Ap. J., 176, L43-L45 (1972)

C. E. KenKnight

A. Statistical Method for the Post-Detection Compensation for Atmospheric Distortions of Images of Faint Scenes

Proc. SPIE, 75, 163-167 (1976)

C. E. KenKnight

Improving on Pinholes in Stellar Interferometry

Proc. AAS/OSA Joint Topical Meeting, "Information Processing in Astronomy and Optics", FA12 (1983)

E. J. Kibblewhite

Giant Infrared Telescopes for Astronomy: A Scientific Rationale

P. A. S. P., 98, 260-267 (1986)

E. J. Kibblewhite, S. Shaklan

The NOAO Distributed Array Test Facility

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 995 (1988)

P. W. Kiedron

Comparison of Phase Retrieval Filter Methods

Proc. SPIE, 828, 165-170 (1987)

K. -S. Kim, D. Caballero

Derivation and Simulation of an Imaging Correlography Algorithm: A Modification of the Idell-Fienup Algorithm

Proc. SPIE, 828, 153-156 (1987)

B. F. Kinahan

On the Power Spectrum of the Solar Granulation at High Wavenumbers

Ap. J., 209, 282-293 (1976)

W. K. Klemperer

Non-Redundant Phased-Array Radar

IEEE (UK) Conf. Publication, 105, 74-80 (1973)

S. H. Knowles, K. J. Johnston, M. Shao, R. Simon, J. H. Spencer

Use of Unfilled Apertures in Space for Optical and Near-Infrared Imaging

Proc. AAS/OSA Joint Topical Meeting, "Information Processing in Astronomy and Optics", FA6 (1983)

K. T. Knox, B. J. Thompson

New Methods of Processing Speckle Pattern Star Images

Ap. J., 182, L133-136 (1973)

K. T. Knox, B. J. Thompson

Recovery of Images from Atmospherically Degraded Short-Exposure Images

Ap. J., 193, L45-L48 (1974)

K. T. Knox

Image Retrieval from Astronomical Speckle Patterns

J. Opt. Soc. Am., 66, 1236-1239 (1976)

L. Koechlin

Proposals for Phase Recovery in High Resolution Techniques

Proc. ESO/CERN Conf., "Optical Telescopes of the Future" (1978)

L. Koechlin

Observational Speckle Interferometry

Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 24 (1979)

L. Koechlin

Amplitude Interferometry at CERGA

Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 9 (1979)

L. Koechlin, D. Bonneau, F. Vakili

Detection d'un Effet de Phase a l'Interferometre du CERGA, Application au Mouvement Orbital de Capella

Astron. Astrophys., 80, L13-L14 (1979)

L. Koechlin, F. Vakili

Performance of Present and Next Generation Stellar Interferometers

Proc. Sac. Peak. Conf., "Solar Instrumentation: What's Next?", 236-239 (1981)

L. Koechlin, F. Vakili, D. Bonneau

Double Star Measurement with the Cerga Two Telescope Interferometer

Proc. IAU Coll. No. 62, "Current Techniques in Double and Multiple Star Research", 156-157 (1983)

L. Koechlin, F. Vakili, M. Faucherre, G. P. Di Benedetto, J. C. Conti

Petit Interferometre Stellaire du CERGA: Resultats et Projets

Proc. CNES Conf., "Techniques d'Interferometrie a tres Grande Base" (1983)

L. Koechlin, F. Vakili, M. Faucherre, G. P. Di Benedetto, J. C. Conti
Very Long Baseline Interferometry Techniques
Proc. CNES Conf., 311 (1984)

L. Koechlin
Fringe Drift Compensation in Computer Memory
Proc. ESA Colloq., "Kilometric Optical Arrays in Space", 99-106 (1985)

L. Koechlin, Y. Rabbia
Mesures de diametres a l'Interferometre Optique du CERGA. Developpements et Resultats Recents
Astron. Astrophys., 153, 91-98 (1985)

L. Koechlin
Interferometrie Stellaire dans l'Espace: Detection des Franges
J. Optics (Paris), 16, 6 (1986)

L. Koechlin, F. Vakili, Y. Rabbia, G. P. Di Benedetto, G. C. Conti, C. Thom, P. Granes, P. Nisenson, C. Papaliolios, M. Lacasse, P. Cruzalebes, G. Schumacher
The CERGA Small Interferometer
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 109-114 (1987)

L. Koechlin
The 12T Interferometer
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 695 (1988)

L. Koechlin
Extracting Star Profiles from Two-Telescope Interferometry Data
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 715 (1988)

D. Korff, G. Dryden, G. Miller
Information Retrieval from Atmospheric Induced Speckle Patterns
Opt. Comm., 5, 187-192 (1972)

D. Korff
Analysis of a Method for Obtaining Near-Diffraction-Limited Information in the Presence of Atmospheric Turbulence
J. Opt. Soc. Am., 63, 971-980 (1973)

D. Korff, G. Dryden, R. Leavitt
Isoplanicity: The Translation Invariance of the Atmospheric Green's Function
J. Opt. Soc. Am., 65, 1321-1330 (1975)

E. S. Kulagin
A Variant of Michelson's Stellar Interferometer
Opt. Spectrosc., 23, 459-460 (1967)

E. S. Kulagin
Measurements of Capella with the Pulkovo Stellar Interferometer
Sov. Astron., 14, 145-147 (1970)

E. S. Kulagin

A Superposed-ray Interferometer

Sov. Astron., 13, 1023-1028 (1970)

S. R. Kulkarni

The Non-Redundant Mask Technique: Theory and Practice

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 595 (1988)

R. Kwong

Analytical Expression for the MTF of an Array of Circular Unaberrated Phased Aperture

J. Optics, 27, 2055-2060 (1988)

A. Labeyrie

Attainment of Diffraction-limited Resolution in Large Telescopes by Fourier Analysing Speckle Patterns in Star Images

Astron. Astrophys., 6, 85-87 (1970)

A. Labeyrie

Speckle Interferometer for 0.02 Arc Sec Stellar Resolution

Proc. ESO/CERN Conf., "Auxillary Instrumentation for Large Telescopes", 389-392 (1972)

A. Labeyrie

Observations Interferometriques au Mont Palomar

Nouv. Rev. Optique, 5, 141-151 (1974)

A. Labeyrie, D. Bonneau, R. V. Stachnik, D. Y. Gezari

Speckle Interferometry. III. High-Resolution Measurements on Twelve Close Binary Systems

Ap. J., 194, L147-L151 (1974)

A. Labeyrie

Measurement of Stellar Angular Diameters by Speckle Interferometry

Proc. ICO Conf. (Japan. J. Appl. Phys.), 14, "Optical Methods in Scientific and Industrial", 283-289 (1975)

A. Labeyrie

Interference Fringes Obtained on Vega with Two Optical Telescopes

Ap. J., 196, L71-L75 (1975)

A. Labeyrie

High-Resolution Techniques in Optical Astronomy

Progress in Optics, North-Holland, 49-87 (1976)

A. Labeyrie, L. Koechlin, D. Bonneau, A. Blazit, R. Foy

Strong TiO-Related Variations in the Diameters of Mira and R Leonis

Ap. J., 218, L75-L78 (1977)

A. Labeyrie

Coherent Arrays

Proc. ESO/CERN Conf., "Optical Telescopes of the Future", 373-386 (1978)

A. Labeyrie

Post-Detection Interferometer Image Processing

Proc. ESO/CERN Conf., "Optical Telescopes of the Future", 469-473 (1978)

A. Labeyrie

Stellar Interferometry Methods

Ann. Rev. Astron. Astrophys., 16, 77-102 (1978)

A. Labeyrie

Speckle Interferometry

The Messenger, 15, 9-11 (1979)

A. Labeyrie

Standing Wave and Pellicle: A Possible Approach to Very Large Space Telescopes

Astron. Astrophys., 77, L1-L2 (1979)

A. Labeyrie, F. Praderie, J. Steinberg, S. Vatoux, F. Wouters

"FLUTE", a Long-baseline Optical Interferometer in Space

Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990's", 786-796 (1980)

A. Labeyrie

Interferometry with Arrays of Large-aperture Ground Based Telescopes

Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s", 786-796 (1980)

A. Labeyrie

Speckle Interferometry: Review of the Field and Trends

Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths", 87-93 (1981)

A. Labeyrie

Multiple Telescope Interferometry

Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths", 225-236 (1981)

A. Labeyrie, B. Authier, T. de Graauw, E. Kibblewhite, G. Weigelt

TRIO a Kilometric Array Stabilized by Solar Sails

Proc. ESA Colloq., "Kilometric Optical Arrays in Space", 121-128 (1985)

A. Labeyrie

Interferometric Methods in Astronomy

Proc. ICO-12 Conf., "Current Trends in Optics", 21-27 (1981)

A. Labeyrie, B. Authier, J. B. Boit, T. de Graauw, E. Kibblewhite, L. Koehlin, P. Rabout, G. Weigelt

TRIO: A Kilometric Optical Array Controlled by Solar Sails

Bull. Am. Ast. Soc., 16, 828 (1984)

A. Labeyrie

Strategy for the Development of Space Arrays

Proc. ESA Colloq., "Kilometric Optical Arrays in Space", 23-26 (1985)

A. Labeyrie

Problems in Image Reconstruction with Optical Arrays

- Proc. ESA Colloq., "Kilometric Optical Arrays in Space", 117-120 (1985)*
- A. Labeyrie, G. Schumacher, C. Thom, M. Dugue, F. Foy, R. Foy, P. Cormier, F. Vakili
Progress of the Large Interferometer at CERGA
Proc. IAU Coll. No. 79, "Very Large Telescopes, Their Instrumentation and Programs", 267-268 (1984)
- A. Labeyrie
High Angular Resolution
Saas Fe Course on Astrophysics (1986)
- A. Labeyrie, G. Lemaitre, L. Koechlin
The Optical Very Large Array, *Proc. SPIE, 628, 323-332 (1986)*
- A. Labeyrie, G. Schumacher, M. Dugue, C. Thom, P. Bourlon, F. Foy, D. Bonneau, R. Foy
Fringes Obtained with the Large Boules Interferometer at Cerga
Astron. Astrophys., 162, 359-364 (1986)
- A. Labeyrie, I. Bosc, D. Mourard
Multiple Aperture Interferometry: Towards the Optical Very Large Array
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 97-104 (1987)
- A. Labeyrie
Frontier Interferometry
Proc. NATO Advanced Study Institute, "Diffraction-Limited Imaging with Very Large Telescopes", 13 (1988)
- A. Labeyrie, G. Lemaitre, C. Thom, F. Vakili
Steps Towards an Optical Very Large Array
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 669 (1988)
- A. Labeyrie
The Lunar Version of the Optical Very Large Array and its Uses
Proc. NASA Workshop "Astrophysics from the Moon", ed. M. Mumma and H. Smith, (Annapolis, MD Feb. 5, 1990), in press (1990)
- M. G. Lacasse, W. A. Traub
A Computer Simulation of Faint Object Image Formation by a Rotating Aperture
Bull. Am. Ast. Soc., 16, 810-817 (1984)
- M. G. Lacasse, W. A. Traub
COSMIC Image Reconstruction
Proc. ESA Colloq., "Kilometric Optical Arrays in Space", 121-128 (1985)
- M. G. Lacasse, W. A. Traub
Glass Compensation for an Air Filled Delay Line
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 959 (1988)
- P. Lacombe, P. Lena, D. Rouan
Sub Arc Second Imaging of the Galactic Center in the Near Infrared
-

Proc. Honolulu Workshop, "Ground-based Astronomical Observations with Infrared Array Detectors" (1987)

P. Lamy, S. Koutchmy
Infrared Imaging and Speckle Observations with a TV Camera
The Messenger (1981)

R. G. Lane, W. R. Fright, R. H. T. Bates
Direct Phase Retrieval
Trans. IEEE, ASSP-35, 520-526 (1987)

R. G. Lane, R. H. T. Bates
Relevance for Blind Deconvolution of Recovering Fourier Magnitude from Phase
Opt. Comm. (1987)

R. G. Lane, R. H. T. Bates
Automatic Multidimensional Deconvolution
J. Opt. Soc. Am. A., 180-188 (1987)

A. Lannes
Aperture Synthesis with or without Phase Information for Kilometric Arrays Interpolation Algorithms for Stabilized Image Reconstruction
Proc. ESA Colloq., "Kilometric Optical Arrays in Space", 165-170 (1985)

A. Lannes, M. J. Casanove, S. Roques
Stability Conditions in Image Reconstruction: A New Regularization Principle
Proc. OSA Topical Meeting, "Signal Recovery & Synthesis II", 108-111 (1986)

A. Lannes, S. Roques, M. J. Casanove
Resolution and Robustness in Image Processing: A New Regularization Principle
J. Opt. Soc. Am. A., 4-1, 189-199 (1987)

A. Lannes, S. Roques, M. J. Casanove
Stabilized Reconstruction in Signal and Image Processing I. Partial Deconvolution and Spectral Extrapolation with Limited Field
J. Mod. Opt., 34, (2), 161-226 (1987)

A. Lannes, S. Roques
On the Concept of Resolution Ellipse in Aperture Synthesis Matched Deconvolution with Error Analysis
Proc. ESA Workshop, "Optical Interferometry in Space", 45-48 (1987)

A. Lannes
Stability Conditions and Regularization Procedures
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 187-190 (1987)

A. Lannes, H. J. Casanove, S. Rogers
Stabilized Reconstruction in Signal and Image Processing. II. Iterative Reconstruction with and without Constraint-interactive Implementation
J. Mod. Opt., 34, 321 (1987)

- A. Lannes
On a New Class of Iterative Algorithms for Phase-Closure Imaging and Bispectrum Analysis
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 169 (1988)
- T. W. Lawrence
Experimental Verification of Extended Image Reconstruction Using Bispectral Speckle Interferometry
Proc. S.P.I.E. No. 1351, in press (1990)
- C. Leinert, H. M. Dyck
Speckle Interferometry Degraded by Irregular Motion of a Scanning Telescope Mirror
Appl. Opt., 22, No. 16, 2403-2404 (1983)
- C. Leinert, H. Jahreiss, M. Haas
Gliese 866 - A Double M Dwarf
Astron. Astrophys., 164, L29-L31 (1986)
- C. Leinert, M. Haas
Speckle Interferometry on Calar Alto
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 233-236 (1987)
- C. Leinert, M. Haas
Image Reconstruction with Noisy One-Dimensional Near Infrared Speckle Data
Proc. ESO Conf., No. 29, "High-Resolution Imaging by Interferometry", 533 (1988)
- Ch. Leinert, M. Haas
ZCma Resolved at Near Infrared Wavelengths: One More Piece to the Puzzle
Astron. Astrophys., 182, L47-L50 (1987)
- Ch. Leinert, M. Haas
Detection of an Infrared Companion to Haro 6-10
Ap. J., 342, L39-L42 (1989)
- P. Lena
Observational Techniques in Infrared Astronomy
Infrared Astronomy, D. Reidel, Holland (1978)
- P. Lena
La haute Resolution Spatiale par Interferometrie dans le Proche Infrarouge
J. Optics (Paris), 10, No 6, 323-328 (1979)
- P. Lena, F. Sibille, A. Chelli
Diffraction Limited Information on Large Telescopes with Infrared Speckle Interferometry
Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s", 840-849 (1980)
- P. Lena
Speckle Interferometry in the Infrared
Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths", 123-138 (1981)
- P. Lena
-

Aperture Synthesis in the Infrared: Prospects for a VLT

Proc. ESO Workshop, 17, "ESO's Very Large Telescope", 129-140 (1983)

P. Lena

Interferometry with Large Telescopes

Proc. IAU Coll. No. 79, "Very Large Telescopes, Their Instrumentation and Programs", 245-256 (1984)

P. Lena

High Angular Resolution in the Infrared: Prospects for Space Observations

Proc. ESA Colloq., "Kilometric Optical Arrays in Space", 17-22 (1985)

P. Lena

Interferometric Imaging with the Very Large Telescope, *Proc. ESO Workshop, 24, "Second Workshop on the ESO Very Large Telescope", 179-201 (1986)*

P. Lena

High Angular Resolution with Imaging Array Detectors

Proc. Honolulu Workshop, "Ground-based Astronomical Observations with Infrared Array Detectors" (1987)

P. Lena, F. Merkle

Interferometry with the European Very Large Telescope

Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 169-170 (1987)

P. Lena

Interferometry. A Powerful Tool for Astronomy

Proc. NATO Advanced Study Institute, "Diffraction-Limited Imaging with Very Large Telescopes", 14 (1988)

P. Lena

The Interferometric Mode of the European Very Large Telescope

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 899 (1988)

P. Lena, S. T. Ridgway, J. M. Mariotti

Interferometric Beam Combination at Infrared Wavelengths

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 1039 (1988)

K. M. Liewer

The Prototype Very Long Baseline Amplitude Interferometer

Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 8 (1979)

E. H. Linfoot, R. C. Witcomb

Random Wave-front Perturbations and Telescope Star Images

M. N. R. A. S., 158, 199-231 (1972)

S. L. Lippincott, D. Braun, D. W. McCarthy

Astrometric and Infrared Speckle Analysis of the Visually Unresolved Binary BD+41 328

P. A. S. P., 95, 271-274 (1983)

Y. C. Liu, A. Lohmann

High Resolution Image Formation Through the Turbulent Atmosphere

Opt. Comm., 8, 372-377 (1973)

A. W. Lohmann, G. P. Weigelt

Image Reconstruction from Astronomical Speckle Interferograms

Proc. ESO/CERN Conf., "Optical Telescopes of the Future", 479-493 (1978)

A. W. Lohmann, G. P. Weigelt

Astronomical Speckle Interferometry: Measurements of Isoplanicity and of Temporal Correlation

Optik, 53, 167-180 (1979)

A. W. Lohmann, G. P. Weigelt

Image Restoration of ST Photographs

Proc. ESA/ESO Workshop, "Astronomical Uses of the ST" (1979)

A. W. Lohmann, G. P. Weigelt, B. Wirtzner

Speckle Masking in Astronomy: Triple Correlation Theory and Application

Appl. Opt., 22, 4028-4037 (1983)

M. C. Lortet, A. Blazit, D. Bonneau, R. Foy

Speckle Interferometric Observations of the Wolf-Rayet Star AS 431 and of Early-type Stars in Cyg OB2

Astron. Astrophys., 180, 111-113 (1987)

F. J. Low, R. Howell

Angular Diameter Measurements of Alpha Orionis, VY Canis Majoris and IRC+10216 at 8.3, 10.2 and 11.1 Micrometers

Ap. J., 214, L85-L89 (1977)

F. J. Low

The Astronomical Potential of Spatial Interferometry in the Infrared

Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 2 (1979)

F. J. Low

Incoherent Infrared Spatial Interferometry

Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 15 (1979)

F. J. Low

IR Interferometry

Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s", 825-839 (1980)

F. J. Low

Interferometry with the Multiple Mirror Telescope and Conventional Telescopes

Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths", (ESO), 263-272 (1981)

S. Lowenthal, J. Serres, C. Froehly

Enregistrements d'Hologrammes en Lumie re Spatialement Incoherente

C. R. Acad. Sc. (Paris), 268 B, 841-844 (1969)

S. Lowenthal, J. Serres, H. Arsenault

Resolution and Film-grain Noise in Fourier Transform Holograms Recorded with Coherent or Spatially Incoherent Light
Opt. Comm., 1, 438-442 (1970)

P. D. Lowman, Jr.

Lunar Bases and the Post-Apollo Lunar Exploration: An Annotated Bibliography of Federally-Funded American Studies
NASA/Goddard Space Flight Center (Code 622), preprint (1984)

P. K. Lu, P. Demarque, W. van Altena, H. A. McAlister, W. I. Hartkopf
ICCD Speckle Observations of Binary Stars. III. A Survey for Duplicity Among High Velocity Stars
A. J., 94, 1318-1326 (1987)

O. von der Luhe

A Method to Estimate Fried's Seeing Parameter from a Time Series of Arbitrary Resolved Structures Imaged Through the Atmosphere
Proc. IAU No. 79, "Very Large Telescopes, Their Instrumentation and Programs", 203-220 (1984)

O. von der Luhe

Estimating Fried's Parameter from a Time Series of an Arbitrary Resolved Object Imaged Through Atmospheric Turbulence
J. Opt. Soc. Am. A., 1, (510-519) (1984)

O. von der Luhe

High-resolution Speckle Imaging of Solar Small-scale Structure: the Influence of Anisoplanatism
Lecture Notes in Physics, 233, "High Resolution in Solar Physics", ed. R. Muller (Springer-Verlag), 96-102 (1985)

O. von der Luhe

The Speckle Masking Transfer Function
Astron. Astrophysics, 150, (229-231) (1985)

O. von der Luhe

Application of the Knox-Thompson Method to Solar Observations
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 37-40 (1987)

O. von der Luhe

Calibration Problems in Solar Speckle Interferometry
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 9-12 (1987)

O. von der Luhe

Study of Sizes, Brightnesses and Dynamics of Solar Facular Points
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 225-228 (1987)

O. von der Luhe, R. B. Dunn

Solar Granulation Power Spectra from Speckle Interferometry
Astron. Astrophysics, 177, (265-276) (1987)

- O. von der Luhe
Signal Transfer Function of the Knox-Thompson Speckle Imaging Technique
J. Opt. Soc. Am. A., 5, 721-729 (1988)
- O. von der Luhe, E. Pehlemann
Speckle Masking Imaging of Extended Sources
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 159 (1988)
- O. von der Luhe, J. B. Zirker
Scientific Goals for Solar Interferometry
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 77 (1988)
- G. Lund, F. Martin, C. Aime
On the Influence of Scanning Speed in Turbulence Degraded One-dimensional Images
J. Optics (Paris), 12, 207-215 (1981)
- C. R. Lynds, S. P. Worden, J. W. Harvey
Digital Image Reconstruction Applied to Alpha Orionis, *Ap. J.*, 207, 174-180 (1976)
- C. D. Mackay, J. E. Baldwin
The COAST Interferometer Project
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 935 (1988)
- R. H. Macklin, E. K. Hege, P. A. Strittmatter
A Real-Time Photoelectron Event-Detecting Video System
Proc. SPIE, 359, 135 (1982)
- A. S. Marathay
Nonimaging Techniques for the Extraction of Noncoherent Object Information and Its Processing
Proc. SPIE, 828, 114-121 (1987)
- J. -M. Mariotti
Experimental Results on Atmospheric Turbulence Obtained with an Infrared Speckle-interferometer
Opt. Acta, 30, 831-840 (1983)
- J. -M. Mariotti, A. Chelli, R. Foy, P. Lena, F. Sibille, G. Tchountonov
Infrared Speckle Imaging: Improvement of the Method - Results on Miras and Protostars
Astron. Astrophys., 120, 237-248 (1983)
- J. -M. Mariotti, G. P. Di Benedetto
Pathlength Stability of Synthetic Aperture Telescopes: The Case of the 25 cm CERGA Interferometer
Proc. IAU Coll. No. 79, "Very Large Telescopes, Their Instrumentation and Programs", 257-265 (1984)
- J. -M. Mariotti, S. Ridgway, P. Lena, Y. Rabbia, F. Sibille
A Ground-based Interferometric System for the Near Infrared
Proc. ESA Workshop, "Optical Interferometry in Space", 175-176 (1987)

- J. -M. Mariotti, C. Perrier, F. Lacombe
Have Circumstellar Envelopes been Detected Around Nearby M-dwarfs?
Astron. Astrophys., 182, L11-L14 (1987)
- J. -M. Mariotti, A. Zadrozny, J. -L. Monin, I. Vauglin
A Rotation Shearing Interferometer for the Near Infrared
Proc. Honolulu Workshop, "Ground-based Astronomical Observations with Infrared Array Detectors" (1987)
- J. -M. Mariotti
Fourier Optics, Image Formation, Noise Analysis
Proc. NATO Advanced Study Institute, "Diffraction-Limited Imaging with Very Large Telescopes",
1 (1988)
- J. -M. Mariotti, J. -L. Monin, A. Zadrozny, C. Perrier
A Near Infrared Rotation Shearing Interferometer
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 281 (1988)
- J. M. Mariotti, S. T. Ridgway
Double Fourier Spatio-spectral Interferometry: Combining High Spectral and High Spatial Resolution in the Near Infrared
Astron. Astrophys., 195, 350-363 (1988)
- J. -M. Mariotti, C. Perrier, A. Duquennoy, P. Duhoux
The Masses and Orbital Parameters of the Nearby M Dwarf Binary Gleise 570 B
Astronomy and Astrophysics, 89053 (1989)
- J. -M. Mariotti
Pupil Plane Beam Recombination for Long Baseline Array
Proc. S.P.I.E. No. 1351, in press (1990)
- K. A. Marsh, J. M. Richardson
Probabilistic Algorithm for Phase Retrieval
J. Opt. Soc. Am. A., 5, 993-998 (1988)
- F. Martin, H. Touma, A. Bijaoui, C. Aime
Reconstruction d'Images en Astronomie par Utilisation d'un Telescope a Pupille Fente
J. Optics (Paris), 18 (3), 133-138 (1987)
- S. Matcher, W. S. P. Meikle, B. Morgan
Supernova 1987A in the Large Magellanic Cloud
IAU Circ. No 4391 (1987)
- S. Matcher, W. S. P. Meikle, B. Morgan
Supernova 1987A in the Large Magellanic Cloud
IAU Circ. No. 4394 (1987)
- C. L. Matson
Weighted Least Squares Phase Reconstruction from the Bispectrum
Proc. S.P.I.E. No. 1351, in press (1990)
- H. A. McAlister
-

Spectroscopic Binaries as a Source for Astronomic and Speckle Interferometric Studies
P. A. S. P., 88, 317-322 (1976)

H. A. McAlister
Speckle Interferometry of Eta Orionis
P. A. S. P., 88, 957-959 (1976)

H. A. McAlister
Speckle Interferometric Measurement of Binary Stars I
Ap. J., 215, 159-165 (1977)

H. A. McAlister
Speckle Interferometry as a Method of Detecting Nearby Extrasolar Planets
Icarus, 30, 789-792 (1977)

H. A. McAlister
Binary Star Speckle Interferometry
Sky and Telescope, 53, 346-350 (1977)

H. A. McAlister
Speckle Interferometry of the Hyades Spectroscopic Binary 51 Tauri
Ap. J., 212, 459-461 (1977)

H. A. McAlister
Masses and Luminosities for the Spectroscopic/Speckle Interferometric Binary 12 Persei
Ap. J., 223, 526-529 (1978)

H. A. McAlister
Binary Stars Unresolved by Speckle Interferometry
P. A. S. P., 90, 288-296 (1978)

H. A. McAlister
Speckle Interferometric Measurements of Binary Stars II
Ap. J., 225, 932-938 (1978)

H. A. McAlister
The Accuracy of Binary Star Speckle Interferometry
Proc. IAU Coll. No. 48, "Modern Astrometry" (1979)

H. A. McAlister
High Angular Resolution Binary Star Interferometry
Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 3 (1979)

H. A. McAlister, K. A. DeGioia
Speckle Interferometric Measurements of Binary Stars III
Ap. J., 228, 493-496 (1979)

H. A. McAlister
Speckle Interferometric Measurements of Binary Stars IV
Ap. J., 230, 497-501 (1979)

H. A. McAlister, F. C. Fekel

Speckle Interferometric Measurements of Binary Stars V

Ap. J. Suppl. Ser., 43, 327-337 (1980)

H. A. McAlister

Speckle Interferometry of the Spectroscopic/Astrometric Binary Chi Draconis

A. J., 85, 12 (1980)

H. A. McAlister

Speckle Interferometry of the Spectroscopic Binary 17 Ksi Cephei A

Ap. J., 236, 522-525 (1980)

H. A. McAlister

Speckle Interferometry of Tau Persei

A. J., 86, 1397-1400 (1981)

H. A. McAlister

The Apparent Orbit of Capella

A. J., 86, 795-799 (1981)

H. A. McAlister, E. M. Hendry

Binary Stars Unresolved by Speckle Interferometry II

P. A. S. P., 93, 221-224 (1981)

H. A. McAlister, W. J. Hartkopf

Speckle Interferometry of the Spectroscopic Binary 94 Aquarii A

P. A. S. P., 94, 831-834 (1982)

H. A. McAlister, E. M. Hendry

Speckle Interferometric Measurements of Binary Stars VI

Ap. J. Suppl. Ser., 48, 273-278 (1982)

H. A. McAlister, E. M. Hendry

Speckle Interferometric Measurements of Binary Stars VII

Ap. J. Suppl. Ser., 49, 267-272 (1982)

H. A. McAlister

Masses and Luminosities for the Giant Spectroscopic/Speckle Interferometric Binaries Phi Cygni and Gamma Persei

A. J., 87, 563 (1982)

H. A. McAlister, W. G. Robinson, S. L. Marcus

Development of a Dual Microchannel Plate Intensified CCD Speckle Camera

Proc. SPIE, 331, 113 (1982)

H. A. McAlister, W. J. Hartkopf

Speckle Interferometry of the Spectroscopic Binary 94 Aquarii A

P. A. S. P., 95, 778 (1983)

H. A. McAlister

Five Years of Double Star Interferometry and its Lessons

Proc. IAU Coll. No. 62, "Current Techniques in Double and Multiple Star Research", 125-143 (1983)

H. A. McAlister

Astronomical Speckle Interferometry

Proc. AAS/OSA Joint Topical Meeting, "Information Processing in Astronomy and Optics", FA9 (1983)

H. A. McAlister, E. M. Hendry, W. I. Hartkopf, B. G. Campbell, F. C. Fekel

Speckle Interferometric Measurements of Binary Stars VIII

Ap. J. Suppl. Ser., 53, 241-241 (1983)

H. A. McAlister, W. I. Hartkopf

Catalog of Interferometric Measurements of Binary Stars, 1

"Center for High Angular Resolution Astronomy", (Atlanta, GA) (1984)

H. A. McAlister, W. I. Hartkopf, B. J. Gaston, E. M. Hendry, F. C. Fekel

Speckle Interferometric Measurements of Binary Stars IX

Ap. J. Suppl. Ser., 54, 251-257 (1984)

H. A. McAlister

The Calibration of Interferometrically Determined Properties of Binary Stars

Proc. IAU Symp. No. 111, "Calibration of Fundamental Stellar Quantities", 97-119 (1985)

H. A. McAlister

High Angular Resolution Measurements of Stellar Properties

Ann. Rev. Astron. Astrophys., 23, 59-88 (1985)

H. A. McAlister

Speckle Interferometry in Astrometry

Proc. IAU Symposium No. 109, "Astrometric Techniques", 293 (1986)

H. A. McAlister, W. I. Hartkopf, D. J. Hutter, M. M. Shara, O. G. Franz

ICCD Speckle Observations of Binary Stars. I. A Survey for Duplicity Among the Bright Stars

A. J., 93, 183-194 (1987)

H. A. McAlister, W. I. Hartkopf, D. J. Hutter, O. G. Franz

ICCD Speckle Observations of Binary Stars. II. Measurements During 1982-1985 from the Kitt Peak 4-m Telescope

A. J., 93, No. 3, 688-723 (1987)

H. A. McAlister

The Future of High Angular Resolution Astronomy: Seeing the Unseen

"Vistas in Astronomy" (1987)

H. A. McAlister, W. I. Hartkopf, J. R. Sowell, O. G. Franz

ICCD Speckle Observations of Binary Stars. IV. Measurements During 1986 from the Kitt Peak 4 m Telescope

A. J. (1987)

H. A. McAlister

The GSU/CHARA Optical Telescope Array Project

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 971 (1988)

H. A. McAlister

The Potential of Very High Angular Resolution Measurements of Binary and Multiple Stars
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 3 (1988)

H. A. McAllister, W. I. Hartkopf, W. G. Bagnuolo Jr., J. R. Sowell, O. G. Franz, D. S. Evans
Binary Star Orbits from Speckle Interferometry. I. The Hyades Binary Finsen 342 (70 Tauri)
Astron. J., 96, 1431-1438 (1988)

H. A. McAlister, W. I. Hartkopf, J. R. Sowell, E. G. Dombrowski, O. G. Franz
ICCD Speckle Observations of Binary Stars. IV. Measurements During 1986-1988 from the Kitt Peak 4 m Telescope
Astron. J., 97, 510-531 (1989)

B. C. McCallum, R. H. T. Bates
Towards a Strategy for Automatic Phase Retrieval from Noisy Fourier Intensities
J. Modern Opt., 36
619-648 (1989)

D. W. McCarthy, F. J. Low
Initial Results of Spatial Interferometry at 5 Microns
Ap. J., 202, L37-L40 (1975)

D. W. McCarthy, F. J. Low, R. Howell
Angular Diameter Measurements of Alpha Orionis, VY Canis Majoris and RC+10216 at 8.3, 10.2 and 11.1 Micrometers
Ap. J., 214, L85-L89 (1977)

D. W. McCarthy, F. J. Low, R. R. Howell
Design and Operation of an Infrared Spatial Interferometer
Opt. Engr., 16, 569-574 (1977)

D. W. McCarthy, R. Howell, F. J. Low
Apparent Variation in the Diameter of Omicron Ceti at 10.2 Microns
Ap. J., 223, L113-L116 (1978)

D. W. McCarthy
Interferometric Measurements of Flattened Circumstellar Envelopes
Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 18 (1979)

D. W. McCarthy, F. J. Low, R. Howell
Infrared Spatial Interferometry: Present Status and Future Plans
Proc. SPIE, 172, 140-148 (1979)

D. W. McCarthy, R. Howell, F. J. Low
Spatial Spectra of IRC+10216 from 2.2 to 20 Microns: Deviations from Spherical Symmetry
Ap. J., 235, L27-L31 (1980)

D. W. McCarthy
Triple Structure of Infrared Source 3 in the Monoceros R2 Molecular Cloud
Ap. J., 257, L93-L97 (1982)

D. W. McCarthy, F. J. Low, S. G. Kleinmann, D. W. Arganbright

- Infrared Detection of the Low-mass Companion to Zeta Aquarii B**
Ap. J., 257, L75-L78 (1982)
- D. W. McCarthy, F. J. Low, S. G. Kleinmann, F. C. Gillett
Infrared Speckle Interferometry of the Nucleus of NGC 1068
Ap. J., 257, L7-L11 (1982)
- D. W. McCarthy, P. A. Strittmatter, E. K. Hege, F. J. Low
The Performance of the Multiple Mirror Telescope: VIII. The MMT as an Optical-Infrared Interferometer and Phased Array
Proc. SPIE, 332, 57-65 (1982)
- D. W. McCarthy
Near-Infrared Imaging of Unseen Companions to Nearby Stars
Proc. IAU Coll. No. 76, "The Nearby Stars and the Stellar Luminosity Function", 107-112 (1983)
- D. W. McCarthy
Mass Measurements of the Components of Mu Cas
A. J., 89, No 3, 433-435 (1984)
- D. W. McCarthy, R. G. Probst, F. J. Low
Infrared Detection of a Close Cool Companion to van Biesbroeck 8
Ap. J., 290, L9-L13 (1985)
- D. W. McCarthy
Infrared Speckle Interferometry: A Sensitive Technique for Physical Measurements of Unseen Companions to Nearby Stars
Proc. IAU Symposium No. 109, "Astrometric Techniques" (1986)
- D. W. McCarthy, M. L. Cobb
Applications of Image Sharpness Criteria in Infrared Speckle Interferometry
Proc. SPIE, 627, 797-804 (1986)
- D. W. McCarthy
The Search for Substellar Companions to Nearby Stars: Infrared Imaging from the Ground and from Space
Proc. Conf., "Astrophysics of Brown Dwarfs" (1986)
- D. W. McCarthy
Imaging of Low Mass Binary Companions and Circumstellar Disks
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 237-240 (1987)
- D. W. McCarthy, M. L. Cobb, R. G. Probst
Gliese 866: A New, Low-mass Binary in the Solar Neighborhood
A. J., 93 (6), 1535-1538 (1987)
- D. W. McCarthy, T. J. Henry
Direct Infrared Observations of the Very Low Mass Object Gliese 623B
Ap. J., 319, L93-L98 (1987)
- D. W. McCarthy Jr., J. C. Christou, T. J. Henry
-

Near-Infrared Imaging of Low Mass Objects as Close Companions to Nearby Stars
Proc. ESO Conf., No. 29, "High-Resolution Imaging by Interferometry", 541 (1988)

D. W. McCarthy Jr., E. K. Hege
Improved Performance of the 6.86-m MMT for Visible/Infrared Imaging at the Diffraction Limit
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 887 (1988)

D. W. McCarthy Jr., E. K. Hege, J. D. Freean, D. R. Blanco, J. C. Sjogren, C. C. Janes, J. W. Montgomery, S. B. Skaklan
Interferometry with the Columbus Telescope: Design Considerations Based on MMT Experience and Imaging Simulations
Proc. ESO Conf. and Workshop #30, Very Large Telescopes and Their Instrumentation, 1, 787 (1988)

M. J. McDonnell, R. H. T. Bates
Digital Restoration of an Image of Betelgeuse
Ap. J., 208, 443-452 (1976)

B. L. McGlamery
Restoration of Turbulence-Degraded Images
J. Opt. Soc. Am., 57, 293-297 (1967)

B. L. McGlamery
Image Restoration Techniques Applied to Astronomical Photography
NASA Tech. Rep. SP-256 (1971)

B. L. McGlamery
Computer Simulation Studies of Compensation of Turbulence Degraded Images
Proc. SPIE/OSA, 74, 225-233 (1976)

J. Meaburn, B. L. Morgan, H. Vine, A. Pedlar, R. Spencer
Speckle Observations of the Nucleus of NGC 1068
Nature, 296, 331-334 (1982)

J. Meaburn, J. C. Hebden, B. L. Morgan, H. Vine
Speckle Observations of R136a
M. N. R. A. S., 200, 1P-5P (1982)

J. Meaburn, J. R. Walsh, J. C. Hebden, B. L. Morgan, H. Vine
Speckle Observations of Eta Carinae
M. N. R. A. S., 204, 41P-46P (1983)

J. Meaburn, J. R. Walsh, J. C. Hebden, B. L. Morgan, H. Vine
Speckle Observations of the Central Star in the Red Rectangle
M. N. R. A. S., 205, 53P-56P (1983)

J. Meaburn, J. R. Walsh, B. L. Morgan, J. C. Hebden, H. Vine, C. Standley
Speckle Observations of the Central Source in the Bipolar Nebula NGC 2346
M. N. R. A. S., 213, 35P-38P (1985)

W. S. P. Meikle

"Supernova 1987A"

Proc. ESO Workshop, ed. I. J. Danziger, (Garching, West Germany): ESO 1987

A. B. Meinel, M. P. Meinel, S. P. Synnott

Astrophysical Object Models for Modeling of Interferometer Configurations

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 1075 (1988)

E. S. Meinel

Maximum-entropy Image Restoration = Lagrange and Recursive Techniques

J. Opt. Soc. Am. A., 5, 25-29 (1988)

J. Meng, G. J. M. Aitken, E. K. Hege

Stellar Image Reconstruction by Computationally Efficient Triple Correlation

Proc. S.P.I.E. No. 1351, in press (1990)

F. Merkle, P. Lena

Spatial Interferometry with the European VLT

Proc. SPIE, 628, 261-272 (1986)

F. Merkle

Beam Combination Modes of the VLT

Proc. ESO Workshop, 24, "Second Workshop on the ESO Very Large Telescope", 403-416 (1986)

F. Merkle

Adaptive Optics for the VLT

Proc. ESO Workshop, 24, "Second Workshop on the ESO Very Large Telescope", 443-446 (1986)

F. Merkle

Ground-based Interferometry with the European Very Large Telescope

Proc. ESA Workshop, "Optical Interferometry in Space", 127-138 (1987)

F. Merkle

Active Control of an Interferometer with Independent Telescopes

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 921 (1988)

F. Merkle

Real-Time Wave Front Sensing and Adaptive Optics

Proc. NATO Advanced Study Institute, "Diffraction-Limited Imaging with Very Large Telescopes", 4 (1988)

F. Merkle

Current Concept of the VLT Interferometric Mode

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 909 (1988)

F. Merkle

Synthetic-aperture Imaging with the European Very Large Telescopes

J. Opt. Soc. Am. A., 5, 904-913 (1988)

L. Mertz

Transformations in Optics, ed. J. Wiley & Sons (1970)

L. N. Mertz

Speckle Imaging, Photon by Photon

Appl. Opt., 18, 611-614 (1979)

L. N. Mertz, T. D. Tarbell, A. Title

Low Noise Imaging Photon Counter for Astronomy

Appl. Opt., 21, 628-634 (1982)

L. N. Mertz

Complex Interferometry

Appl. Opt., 22, 1530-1534 (1983)

L. N. Mertz

Real-time Fringe-pattern Analysis

Appl. Opt., 22, 1535-1539 (1983)

L. N. Mertz

Phase Estimation with Few Photons

Appl. Opt., 23, 1638-1641 (1984)

L. N. Mertz

Multichannel Seeing Compensation via Software

Appl. Opt., 24, 2898-2902 (1985)

L. N. Mertz

Innovations in the Phasor Diagram that Give Lower Ultimate Quantum Noise

Proc. OSA Topical Meeting, "Quantum-Limited Imaging and Image Processing", 38-40 (1986)

A. A. Michelson

On the Application of Interference Methods to Astronomical Methods

Phil. Mag., 30, 1-20 (1890)

A. A. Michelson

Measurement of Jupiter's Satellites by Interference

Nature, 45, 160-161 (1891)

A. A. Michelson

On the Application of Interference Methods to Astronomical Measurements

Ap. J., 51, 257-262 (1920)

A. A. Michelson, F. G. Pease

Measurement of the Diameter of Alpha Orionis with the Interferometer

Ap. J., 53, 249-259 (1921)

M. G. Miller, A. Schneiderman, P. F. Keller

Comparison of Methods for Processing Short-Exposure Data from Large Telescopes

Ap. J., 186, L91-L94 (1973)

M. G. Miller, D. Korff

Resolution of Partially Coherent Objects by Use of Speckle Interferometry

J. Opt. Soc. Am., 64, 155-161 (1974)

M. G. Miller, P. F. Keller

Astronomical Differential Angle of Arrival Measurements
Proc. OSA Topical Meeting, "Imaging in Astronomy" (1975)

M. G. Miller
Noise Considerations in Stellar Speckle Interferometry
J. Opt. Soc. Am., 67, 1176-1184 (1977)

R. H. Miller
Measurement of Stellar Diameters
Science, 153, 581-587 (1966)

R. H. Miller
A 100 Meter Michelson Interferometer
Aura Eng. Tech. Report, No. 40, KPNO (1971)

D. Morancais, P. Roussel
Aperture Synthesis in Space: Technical Problems
Proc. ESA Workshop, "Optical Interferometry in Space", 177-188 (1987)

D. Morancais, P. Nisenson
Phase Reconstruction in Optical Interferometry
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 653 (1988)

D. Morancais, P. Nisenson
Phase Reconstruction in Optical Interferometry
Optics Commun., 67, 39-44 (1988)

B. L. Morgan, D. R. Beddoes, R. J. Scaddan, J. C. Dainty
Observations of Binary Stars by Speckle Interferometry I
M. N. R. A. S., 183, 701-710 (1978)

B. L. Morgan, G. K. Beckman, R. J. Scaddan
Observations of Binary Stars by Speckle Interferometry II
M. N. R. A. S., 192, 143-151 (1980)

B. L. Morgan, G. K. Beckman, R. J. Scaddan, H. A. Vine
Observations of Binary Stars by Speckle Interferometry III
M. N. R. A. S., 198, 817-824 (1982)

B. L. Morgan, C. Standley, H. A. Vine
Speckle Interferometry at Imperial College
Proc. SPIE, 627, 805-813 (1986)

J. S. Morgan
Speckle Imaging with the MAMA Detector
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 381 (1988)

R. G. Morton, W. J. Connally, T. Olson, K. Avicola, C. J. Buczek
Simultaneous Target Imaging and Velocity Measurements with a 2-D Coherent Ultraviolet Pupil Plane Detector Array
Proc. S.P.I.E. No. 1351, in press (1990)

D. Mourard

Current Developments on G12T

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 729 (1988)

D. Mozurkewich, K. J. Johnston, R. S. Simon, D. J. Hutter,, M. M. Colavita, M. Shao, J. L. Hershey, J. A. Hughes, G. H., Kaplan

Phase Referenced Averaging as a Method for Decreasing the Variance of Visibility Measurements

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 851 (1988)

D. Mozurkewich, D. J. Hutter, K. J. Johnston, R. S. Simon, M. Shao, M. M. Colavita, D. H. Staelin, B. Hines, J. L. Hershey, J. A. Hughes, G. H. Kaplan

Preliminary Measurements of Star Positions with the Mark III Stellar Interferometer

Astron. J., 95, 1269-1277 (1988)

M. Muller, M. Walter, G. Weigelt

Deconvolution of Images Recorded with Large Space Telescopes: Roll Deconvolution and Aberration Plate Method

Proc. ICO-13, "Optics in Modern Science and Technology", 52 (1984)

M. Muller, G. Weigelt

Roll Deconvolution of Space Telescope Data: Inverse Filtering of Two Speckle Interferograms

Proc. SPIE, 556, 270-273 (1985)

M. Muller, G. Weigelt

High-resolution Astronomical Imaging by Roll Deconvolution of Space Telescope Data

Astron. Astrophysics, 175 312-318 (1987)

M. Muller, B. Baier, S. Helm, G. Weigelt

Optical Parameters of the Atmosphere

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 553 (1988)

M. V. Murty

Interference Between Wavefronts Rotated or Reversed with Respect to Each Other and its Relation to Spatial Coherence

J. Opt. Soc. Am., 54, 1187-1190 (1964)

N. Nakajima

Phase Retrieval Using the Logarithmic Hilbert Transform and the Fourier-series Expansion

J. Opt. Soc. Am. A., 5, 257-262 (1988)

T. Nakajima

Signal-to-Noise Ratio of the Bispectral Analysis of Speckle Interferometry

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 181 (1988)

T. Nakajima, S. R. Kulkarni, P. W. Gorham, A. M. Ghez, G. Neugebauer, J. B. Oke, T. A. Prince, A. C. S. Readhead

Diffraction-limited Imaging. II. Optical Aperture-synthesis Imaging of Two Binary Stars

Astron. J., 97, 1510-1520 (1989)

P. J. Napier, R. H. T. Bates

Inferring Phase Information from Modulus Information in Two-Dimensional Aperture Synthesis

Astron. Astrophys. Suppl. Ser., 15, 427-430 (1974)

R. Narayan, R. Nityananda
Maximum Entropy Image Restoration in Astronomy
Ann. Rev. Astron. Astrophys., 24, 127-170 (1986)

R. Narayan
Phase Retrieval with the Maximum Entropy Method
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 183-186 (1987)

R. Navarro, F. J. Fuentes, M. Nieto-Vesperinas
Simulated Annealing Image Reconstruction in Photon-limited Stellar Speckle Interferometry
Astron. Astrophys., 208, 374-38 (1989)
Erratum, Astron. Astrophys., 219, 362 (1989)

M. R. Nelson
Computer Controlled Photometer for Speckle Interferometry
Image Processing Techniques in Astronomy, D. Reidel (1975)

R. Neri, M. Grewing
Speckle Observations of R136
Proc. ESO Conf., No. 29, "High-Resolution Imaging by Interferometry", 497 (1988)

R. Neri, M. Grewing
AIT-MCP-Speckle Camera Observations of the Multiple-star Cluster R136
Astron. Astrophys., 196, 338-340 (1988)

M. Nieto-Vesperinas, R. Navarro, F. J. Fuentes
Performance of a Simulated-annealing Algorithm for Phase Retrieval
J. Opt. Soc. Am. A., 5, 30-38 (1988)

P. Nisenson, R. V. Stachnik
Real-Time Speckle Imaging
Proc. OSA Topical Meeting, "Imaging in Astronomy" (1975)

P. Nisenson, D. C. Ehn, R. V. Stachnik
Astronomical Speckle Imaging
Proc. SPIE, 75, 83-88 (1976)

P. Nisenson, R. V. Stachnik
Measurements of Atmospheric Isoplanatism Using Speckle Interferometry
J. Opt. Soc. Am., 68, 169-175 (1978)

P. Nisenson, R. V. Stachnik
Restoration of Turbulence-Degraded Images, a Review
Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 34 (1979)

P. Nisenson, R. V. Stachnik, C. Papaliolios
High Resolution Imaging at Large Telescopes
Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s", 401-417 (1980)

- P. Nisenson, R. V. Stachnik, C. Papaliolios, P. Horowitz
Data Recording and Processing for Speckle Image Reconstruction
Proc. SPIE, 243, 88-94 (1980)
- P. Nisenson, J. Apt, R. Goody, P. Horowitz
Radius and Limb Darkening of Titan from Speckle Imaging
A. J., 86 (11), 1690-1693 (1981)
- P. Nisenson, J. Apt, R. Goody, C. Papaliolios
Speckle Imaging for Planetary Research
Icarus, 53, 465-478 (1983)
- P. Nisenson, C. Papaliolios
Effects of Photon Noise on Speckle Image Reconstruction with the Knox-Thompson Algorithm
Opt. Comm., 47 (2), 91-96 (1983)
- P. Nisenson, R. V. Stachnik, M. Karovska, R. W. Noyes
A New Optical Source Associated with T Tauri
Ap. J., 297, L17-L20 (1985)
- P. Nisenson, W. Traub
Magnitude Limit of the Group Delay Fringe Tracking Method for Long Baseline Interferometry
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 129-134 (1987)
- P. Nisenson, M. Karovska
Speckle Imaging at CFA
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 229-230 (1987)
- P. Nisenson, C. Papaliolos, M. Karovska, R. W. Noyes
Detection of a Very Bright Source Close to the LMC Supernova SN 1987A
Ap. J., 320, L15-L18 (1987)
- P. Nisenson
Phase Estimation from Knox and Thompson Method
Proc. NATO Advanced Study Institute, "Diffraction-Limited Imaging with Very Large Telescopes", 9 (1988)
- P. Nisenson, M. Karovska, L. Koehlin, C. Papaliolios, C., Standley
High Angular Resolution Observations of SN1987A
Proc. ESO Conf., No. 29, "High-Resolution Imaging by Interferometry", 491 (1988)
- J. E. Noordam, P. D. Atherton, A. H. Greenaway
OASIS: Optical Aperture Synthesis in Space
Proc. ESA Colloq., "Kilometric Optical Arrays in Space", 63-69 (1985)
- J. E. Noordam
Groundbased High Resolution Imaging Laboratory (GHRIL)
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 223-224 (1987)
-

J. E. Noordam, A. H. Greenaway, J. D. Bregman, R. S. le Poole

OASIS: A Mission Concept

Proc. ESA Workshop, "Optical Interferometry in Space", 51-60 (1987)

J. E. Noordam

Beyond the Seeing Limit: Diffraction Limited Imaging of Objects Fainter than 20th Magnitude

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 643 (1988)

J. Noordam, L. F. Rodriguez, J. Fuensalida, Wang Wei

Announcement of Opportunity: GHRIL

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 1131 (1988)

J. E. Noordam, P. Y. Bely, M. Faucherre, A. H. Greenaway, F. Merkle, M. A. C. Perryman, P. H. Roussel, F. Vakili, S. Volonte and G. P. Weigelt

A Proposed Medium-term Strategy for Optical Interferometry in Space, Report to the ESA

Astronomy Working Group by the Space Interferometry Study Team, (ESA report May 1990, in press) (1990)

M. J. Northcott, G. R. Ayers, J. C. Dainty

Algorithms for Image Reconstruction from Photon-limited Data Using Triple Correlation

J. Opt. Soc. Am. A., 5, 986-992 (1988)

B. T. O'Connor, T. S. Huang

Application of Phase Unwrapping to Image Restoration

Computer Graphics and Image Processing, 15, 25-44 (1981)

K. A. O'Donnell, J. C. Dainty

Space-Time Analysis of Photon-Limited Stellar Speckle Interferometry

J. Opt. Soc. Am., 70, 1354-1361 (1980)

K. A. O'Donnell, B. J. Brames, J. C. Dainty

Measurements of the Spatial-Temporal Statistics of Stellar Speckle Patterns at Mauna Kea, Hawaii

Opt. Comm., 41, No. 2, 79 (1982)

E. L. O'Neill, A. Walther

The Question of Phase in Image Formation

Opt. Acta, 10, 33-40 (1963)

J. Ohtsubo

Effects of Finite Spectral Bandwidth and Focusing Error on the Transfer Function in Stellar Speckle Interferometry

J. Opt. Soc. Am. A., 2, 667, 673 (1985)

J. Ohtsubo, A. Ogiwara

Effect of Clipping Threshold of Clipped Speckle Intensity

Opt. Comm., 65 (2), 73-78 (1988)

J. Ohtsubo, T. Eija, K. Tomita, M. Noguchi, T. Kanda, T. Kohno

Effect of Spectral Bandwidth on the MTF in Stellar Speckle Interferometry

Opt. Commun., 65, 79-83 (1988)

Y. Ohtsuka

Proposal for the Determination of the Complex Degree of Spatial Coherence

Opt. Lett., 1, 133-134 (1977)

H. Olthof

ESA: Space Station Based Interferometry

Proc. ESA Workshop, "Optical Interferometry in Space", 93-94 (1987)

J. Oneto

Microprocessors and Large Telescope Arrays

Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s", 976-983 (1980)

C. Papaliolios, L. Mertz

A New Two-Dimensional Photon Camera

Proc. SPIE, 331, 360-365 (1982)

C. Papaliolios, P. Nisenson, S. Ebstein

Speckle Imaging With the PAPA Detector

Appl. Opt., 24, 287-292 (1985)

A. Papoulis

A New Algorithm in Spectral Analysis and Band-Limited Extrapolation

IEEE Trans. Circuits Syst., CAS-22 (9), 735-742 (1975)

G. Parry, J. G. Walker, R. J. Scaddan

On the Statistics of Stellar Speckle Patterns and Pupil Plane Scintillation

Opt. Acta, 26, 563-574 (1979)

R. G. Paxman, J. R. Fienup, J. T. Clinthorne

Effects of Tapered Illumination and Fourier Intensity Errors on Phase Retrieval

Proc. SPIE, 828, 184-189 (1987)

R. G. Paxman, J. R. Fienup

Optical Misalignment Sensing and Image Reconstruction Using Phase Diversity

J. Opt. Soc. Am. A., 5, 914-923 (1988)

R. G. Paxman, S. L. Crippen, C. R. DeHainaut

Aberration Correction for Phased-array Telescope Using Phase Diversity

Proc. S.P.I.E. No. 1351, in press (1990)

F. G. Pease

The Fifty-foot Interferometer Telescope

Armour Engineer, 125-130 (1925)

F. G. Pease

The New Fifty-Foot Stellar Interferometer

Sci. Am., 143, 290-294 (1930)

F. G. Pease

Interferometer Methods in Astronomy

Ergebn. Exacten. Naturwiss., 10, 84-96 (1931)

- E. Pehlemann, O. von der Luhe
Technical Aspects of the Speckle Masking Phase Reconstruction Algorithm
Astron. Astrophys., 216, 337-346 (1989)
- I. Percheron, M. Dugue, F. Vakili
On Line Image Processing with the Stellar Interferometer 12T
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 725 (1988)
- M. J. Perez-Illarbe, M. Nieto-Vesperinas
Image Reconstruction from Power Spectrum Only Information in Photon-limited Stellar Speckle Interferometry
Proc. S.P.I.E. No. 1351, in press (1990)
- C. Perrier
An Infrared Speckle Interferometer
The Messenger, 25, 26-29 (1981)
- C. Perrier
Recent Results of IR Speckle Interferometry at ESO
The Messenger, 33, 16-19 (1983)
- C. Perrier
ESO Infrared Specklegraph
The Messenger, 45, 29-32 (1986)
- C. Perrier, J. -M. Mariotti
On the Binary Nature of Van Biesbroeck 8
Ap. J., 312, L27-L30 (1987)
- C. Perrier
Infrared Speckle Calibration Methods
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 13-16 (1987)
- C. Perrier
Supernova 1987A in the Large Magellanic Cloud
IAU Circ., No. 4417 (1987)
- C. Perrier, A. Chelli, H. Zinnecker
Astrophysical Results on Young Stars and Active Objects
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 247-250 (1987)
- C. Perrier
Infrared Speckle Interferometry: Practice, Limitations and Achievements
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 113 (1988)
- C. Perrier, A. Chalabaev, J. -M. Mariotti, P. Bouchet
Infrared Speckle Observation of SN 1987a in LMC
Proc. ESO Workshop, "Supernova 1987a in the LMC" (in press)
- D. M. Peterson, R. Solensky
-

Finsen 342 and the Hyades Distance Modulus

Ap. J., 315, 286-295 (1987)

R. Petrov, S. Kadiri, F. Martin, G. Ricort, C. Aime

Application de l'Analyse Interspectrale a la Speckle Interferometrie

J. Optics (Paris), 13, 331-337 (1982)

R. G. Petrov, C. Aime, J. Borgnino, F. Martin, G. Ricort

16m Large Slit Aperture Telescope for Very High Angular Resolution Astronomy

Proc. IAU Coll. No. 79, 295-308 (1984)

R. Petrov, F. Roddier, C. Aime

Signal-to-noise Ratio in Differential Speckle Interferometry

J. Opt. Soc. Am. A., 3, 634-644 (1986)

R. G. Petrov

Submilliarcsecond Imaging of Rotating Stars Using Differential Speckle Interferometry

Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 89-92 (1987)

R. G. Petrov

Differential Speckle Imaging

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 235 (1988)

R. Petrov

Differential Interferometry

Proc. NATO Advanced Study Institute, "Diffraction-Limited Imaging with Very Large Telescopes", 11 (1988)

D. Plathner

A New Mount for Mobile Telescopes in an Optical Interferometer

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 797 (1988)

J. R. Platt

Increase of Telescope Resolution with Time Selection and an Image Forming Stellar Interferometer

_____ (Journal unknown) (1986)

R. H. Pohle

The Amplitude Interferometry, Speckle Interferometry and Laser Correlography Systems: A Sensor System Comparison

ARPA Order No. 1443

S. Pollaine

Measurement of the Size of the Isoplanatic Patch Using a Phase-Correcting Telescope

J. Opt. Soc., 69, 84-89 (1979)

D. M. Popper, H. A. McAlister

Gamma Persei - Not Over Massive But Over Luminous

A. J., 94, 700-711 (1987)

S. Prasad

Theoretical Sensitivity Limits in Optical Interferometry

Proc. S.P.I.E. No. 1351, in press (1990)

J. Primot, G. Rousset, J. C. Fontanella

Image Deconvolution from Wavefront Sensing: Atmospheric Turbulence Simulation Cell Results

Proc. ESO Conf. and Workshop #30, Very Large Telescopes and Their Instrumentation, 1, 683 (1988)

Y. Rabbia

Attempts for Optical Path Difference Measurements at 12T/CERGA

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 705 (1988)

Y. Rabbia

Amplitude Estimation from Diluted Array Interferometry

Proc. NATO Advanced Study Institute, "Diffraction-Limited Imaging with Very Large Telescopes", 08 (1988)

J. L. Rapier, C. -C. Liu, D. C. Watson

Reconstruction of Images Made Through Turbulent Media: Analysis and Comparison of Selected Methods

Proc. SPIE, 828, 81-86 (1987)

J. Rayner, I. McLean

High Spatial Resolution Near Infrared Multi-Band Imaging of Star Formation Regions

Proc. Honolulu Workshop, "Ground-based Astronomical Observations with Infrared Array Detectors" (1987)

A. C. Readhead, P. N. Wilkinson

The Mapping of Compact Sources from VLBI Data

Ap. J., 223, 25-36 (1978)

A. C. S. Readhead

Mapping Radio Sources with Uncalibrated Visibility Data

Nature, 285, 137-140 (1980)

A. C. S. Readhead

A Comparison of the Determination of Closure Phase in Optical Interferometry with Fully Filled Apertures and Non-redundant Aperture Masks

Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 143-152 (1987)

A. C. S. Readhead, T. S. Nakajima, T. J. Pearson, G. Neugebauer, J. B. Oke, W. L. W. Sargent

Diffraction-limited Imaging with Ground-based Optical Telescopes

Astron. J., 95, 1278-1296 (1988)

R. D. Reasenberg, J. F. Chandler

Dynamical Astronomy via Optical Astrometric Interferometry in Space

Bull. Am. Ast. Soc., 16, 723 (1984)

R. D. Reasenberg

Microarcsecond Astrometric Interferometry

Proc. IAU Symposium No. 109, "Astrometric Techniques", 321-330 (1986)

R. D. Reasenberg

Solar-System Tests in Transition

Proc. Course, "International School of Cosmology & Gravitation: Topological Properties and Global Structure of Space-Time", 177-198 (1986)

R. D. Reasenberg

POINTS: A Small Astrometric Interferometer

Proc. SPIE, 571, 245-251 (1986)

R. D. Reasenberg, I. T. Shapiro

Prospects for Observations of Relativistic Effects in the Solar System

Proc. IAU Symposium No. 114, "Relativity in Celestial Mechanics and Astrometry", 383-391 (1986)

R. D. Reasenberg, R. W. Babcock, J. F. Chandler, M. V. Gorenstein, J. P. Huchra, M. R. Pearlman, J. I. Shapiro, R. S. Taylor, P. Bender, A. Buffington, B. Carney, J. A. Hughes, K. J. Johnston, B. F. Jones, L. E. Matson

Microarcsecond Optical Astrometry: An Instrument and Its Astrophysical Applications

Astron. J., 96, 1731-1745 (1988)

T. Reinheimer, G. Weigelt

Optical Long-baseline Interferometry and Aperture Synthesis by Speckle Masking

Astron. Astrophys., 176, L17-L20 (1987)

T. Reinheimer, K. -H. Hofmann, G. Weigelt

ISIS: Image Reconstruction Experiments and Comparison of Various Array Configurations

Proc. ESA Workshop, 41-44 (1987)

T. Reinheimer, F. Fleischmann, F. Grieger, G. Weigelt

Speckle Masking with Coherent Arrays

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 581 (1988)

R. Relleston, N. George

Image Reconstruction from Partial Fresnel Zone Information

Appl. Opt., 25, 178-183 (1986)

W. T. Rhodes, J. W. Goodman

Interferometric Technique for Recording and Restoring Images Degraded by Unknown Aberrations

J. Opt. Soc. Am., 63, 647-657 (1973)

E. Ribak

A Shearing, Modulating Interferometer

Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths", 171-173 (1981)

E. Ribak, S. G. Lipson

Complex Spatial Coherence Function: Its Measurement By Means Of Phase Modulated Shearing Interferometer

Appl. Opt., 20, 1102-1106 (1981)

- E. Ribak, E. K. Hege, J. C. Christou
Identification of Speckles by Matched Filtering
Bull. Am. Ast. Soc., 16, 885 (abstract) (1984)
- E. Ribak, E. Leibowitz, E. K. Hege
Real-time Fringe Contrast Measurement in Stellar Interferometry
Proc. SPIE, 564 (1985)
- E. Ribak, E. Leibowitz
Shearing Stellar Interferometer. 1. Digital Data Analysis Scheme
Appl. Opt., 24, 3088-3093 (1985)
- E. Ribak, E. Leibowitz, E. K. Hege
Shearing Stellar Interferometer. 2. Opto-electronic Phase-locked System
Appl. Opt., 24, 3094-3100 (1985)
- E. Ribak, E. K. Hege, J. C. Christou
Use of Matched Filtering to Identify Speckle Locations
Proc. SPIE, 556, 196-201 (1985)
- E. Ribak
Astronomical Images by Filtered Weighted Shift-and-Add Techniques
J. Opt. Soc. Am. A., 3, 2069-2076 (1986)
- E. Ribak
Filtered, Weighted Shift-and-Add: Theory and Practice
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 55-58 (1987)
- E. Ribak
Phase Closure with a Rotational Shear Interferometer
Appl. Opt., 26, 197-199 (1987)
- E. Ribak
Phase Relations in a Rotational Shear Interferogram
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 215-218 (1987)
- E. Ribak
Phase Relations and Imaging in Pupil Plane Interferometry
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 271 (1988)
- E. N. Ribak, E. B. Hochberg, N. A. Page, S. P. Synnott, J. B., Breckinridge
Beam Combination in a Multi-Telescope, Monolithic Interferometer
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 1105 (1988)
- E. Ribak, C. Roddier, F. Roddier, J. B. Breckinridge
Signal-to-noise Ratio Limitations in White Light Holography
Appl. Opt., 27, 1183-1186 (1988)
- G. Ricort, C. Aime
-

Solar Seeing and the Statistical Properties of the Photospheric Solar Granulation - 3. Solar Speckle Interferometry

Astron. Astrophys., 76, 324-335 (1979)

G. Ricort, C. Aime, F. Deubner, W. Mattig

Solar Granulation Study in Partial Eclipse Conditions Using Speckle Interferometric Techniques

Astron. Astrophys., 97, 114-121 (1981)

G. Ricort, C. Aime, C. Roddier, J. Borgnino

Determination of Fried's Seeing Parameter r_0 - Prediction for the Observed R. M. S. Contrast in Solar Granulation

Solar Physics, 69, 223-231 (1981)

G. Ricort, C. Aime, J. Vernin, S. Kadiri

Observations of the Brightness Structure of Alpha Orionis

Astron. Astrophys., 99, 232-238 (1981)

S. T. Ridgway

The Scope of the Lunar Occultation Technique for Measurement of Stellar Angular Diameters

Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 6 (1979)

S. T. Ridgway, R. R. Joyce, N. M. White, R. F. Wing

Effective Temperatures of Late-Type Stars: The Field Giants from K0 to M6

Ap. J., 235, 126-137 (1980)

S. T. Ridgway, R. R. Joyce, D. Connors, J. L. Pipher, C. Dainty

The Dust Shells of NML Cygnus and IRC 10420: Inner Radius, Temperature, and Optical Thickness

Ap. J., 302, 662-674 (1986)

S. T. Ridgway, J. -M. Mariotti

A Method for Multispectral Infrared Interferometry

Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 93-96 (1987)

S. T. Ridgway

Ground-based Optical Interferometry

Proc. ESA Workshop, "Optical Interferometry in Space", 119-126 (1987)

S. T. Ridgway

Infrared Interferometric Studies of Circumstellar Dust Shells

Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 245-246 (1987)

S. T. Ridgway, R. J. Joyce, D. C. Connors, J. L. Pipher, C. Dainty

The Dust Shells of NML Cygnus and IRC 10420: Inner Radius, Temperature, and Optical Thickness: Erratum

Ap. J., 312, 963 (1987)

S. Ridgway

Astrophysical Programs for High Angular Resolution Technics

Proc. NATO Advanced Study Institute, "Diffraction-Limited Imaging with Very Large Telescopes",
13 (1988)

S. T. Ridgway

Infrared Interferometry with Single and Multiple Telescopes

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 55 (1988)

M. P. Rimmer

Method for Evaluating Lateral Shearing Interferograms

Appl. Opt., 13, 623-629 (1974)

P. F. Roche, D. A. Allen, J. A. Bailey

Spatial Extent and Nature of the 3 micron Emission Feature in HD 97048 and CPD-56 8032

M. N. R. A. S., 220, 7p (1986)

J. Rosch

**Experiences Preliminaires sur la Selection dans le Temps des Images Stellaires les Mieux
Definies**

C. R. Acad. Sc. (Paris), 247, 422-425 (1958)

S. R. Robinson

On the Problem of Phase from Intensity Measurements

J. Opt. Soc. Am., 68, 87-92 (1978)

C. Roddier, F. Roddier

**Correlation Measurements on the Complex Amplitude of Stellar Plane Waves Perturbed by
Atmospheric Turbulence**

J. Opt. Soc. Am., 63, 661-663 (1973)

C. Roddier, F. Roddier

Influence of Exposure Time on Spectral Properties of Turbulence-Degraded Astronomical Images

J. Opt. Soc. Am., 65, 664-667 (1975)

C. Roddier, F. Roddier

On the Fringe Visibility in a Michelson Interferometer

J. Opt. Soc. Am., 66, 580-584 (1976)

C. Roddier

**Measurements of the Atmospheric Attenuation of the Spectral Components of Astronomical
Images**

J. Opt. Soc. Am., 66, 478-482 (1976)

C. Roddier, F. Roddier

Seeing Effects Removal in a Michelson Stellar Interferometer

J. Opt. Soc. Am., 66, 1347-1350 (1976)

C. Roddier

L'Holographie en Lumie re Incoherente

J. Optics (Paris), 10, No 6, 317 (1979)

C. Roddier, F. Roddier

Imaging with a Coherence Interferometer in Optical Astronomy

Proc. IAU Coll. No. 49, "Image Formation from Coherence Functions in Astronomy", 175-179 (1979)

C. Roddier, F. Roddier, F. Martin, A. Baranne, R. Brun
Twin-image Holography with Spectrally Broad Light
J. Optics (Paris), 11, 149-152 (1980)

C. Roddier, F. Roddier, J. Vernin
Rotation Shearing Interferometry: A New Technique for Achieving High Angular Resolution
Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths", 165-170 (1981)

C. Roddier, F. Roddier
High Angular Resolution Observations of Alpha Orionis with a Rotation Shearing Interferometer
Ap. J., 270, L23-L26 (1983)

C. Roddier, F. Roddier
Processing of Interferograms
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 25-28 (1987)

C. Roddier, F. Roddier
The Alpha Ori Envelope and its Evolution
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 231-231 (1987)

C. Roddier, F. Roddier
Interferogram Analysis Using Fourier Transform Techniques
Appl. Opt., 26 (9), 1668-1673 (1987)

C. Roddier
Pupil Plane Interferometry
Proc. NATO Advanced Study Institute, "Diffraction-Limited Imaging with Very Large Telescopes", 09 (1988)

C. Roddier, F. Roddier
Phase Recovery from Pupil-Plane Interferograms
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 257 (1988)

C. Roddier, F. Roddier, J. Demarcq
Compact Rotational Shearing Interferometer for Astronomical Applications
Opt. Eng., 28, 66-70 (1989)

C. A. Roddier
Self-calibration with Rotational Shearing Interferometry
Proc. S.P.I.E. No. 1351, in press (1990)

F. Roddier
Speckle Interferometry Through Small Multiple Apertures: Michelson Stellar Interferometer and Aperture Synthesis in Optics
Opt. Comm., 10, 103-105 (1974)

F. Roddier

Signal-to-noise Ratio in Speckle Interferometry

Proc. OSA Topical Meeting, "Imaging in Astronomy", ThC6 1-4 (1975)

F. Roddier, C. Roddier, J. Demarcq

A Rotation Shearing Interferometer with Phase-compensated Roof-prisms

J. Optics (Paris), 9, 145-149 (1978)

F. Roddier

Observations of the Sun with Interferometry and Speckle-interferometry Techniques

Proc. JOSO Conf., "Future Solar Optical Observations Needs and Constraints", 96-109 (1978)

F. Roddier, G. Ricort, C. Roddier

Defocussing Effects in Astronomical Speckle Interferometry

Opt. Comm., 24, 281-284 (1978)

F. Roddier, C. Roddier

Imaging with a Multi-mirror Telescope

Proc. ESO/CERN Conf., "Optical Telescopes of the Future", 359-369 (1978)

F. Roddier

Rotation-shearing Interferometry

Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper No. 32 (1979)

F. Roddier

Speckle and Intensity Interferometry. Applications to Astronomy

Proc. Winter-school Les Houches (1979)

F. Roddier

New Trends in Stellar Speckle Interferometry

Proc. SPIE, 243, 83-87 (1980)

F. Roddier, C. Aime

Calibration of the Atmospheric MTF

Proc. Sac. Peak. Conf., "Solar Instrumentation: What's Next?", 434-442 (1981)

F. Roddier, C. Roddier

Incoherent Holography: A Technique for Achieving High-angular Resolution in Optical Astronomy

Proc. ICO-12 Conf., "Current Trends in Optics", 136 (1981)

F. Roddier

The Effects of Atmospheric Turbulence in Optical Astronomy

Progress in Optics, XIX, 281-376 (1981)

F. Roddier

Atmospheric Limitations to High Angular Resolution Imaging

Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths", 5-23 (1981)

F. Roddier, J. M. Gilli, J. Vernin

On the Isoplanatic Patch Size in Stellar Speckle Interferometry

J. Optics (Paris), 13, 63-70 (1982)

F. Roddier, J. M. Gilli, G. Lund

On the Origin of Speckle Boiling and Its Effects in Stellar Speckle Interferometry

J. Optics (Paris), 13, 263-271 (1982)

F. Roddier, C. Roddier

High Angular Resolution with Rotation Shearing Interferometer: Preliminary Results and Future Potentials

Proc. IAU Coll. No. 67, "Instrumentation for Astronomy with Large Optical Telescopes", 207-211 (1982)

F. Roddier

Future Possibilities of Ground-based Interferometry in the Visible

Proc. ESO Workshop, 17, "ESO's Very Large Telescope", 155-161 (1983)

F. Roddier

How to Achieve Diffraction Limited Resolution with Large Space Telescopes

Adv. Space Res., Proc. COSPAR Symp. No. 4, 3-9 (1983)

F. Roddier

Reconstruction of Stellar Images from Coherence Measurements in the Visible

Proc. AAS/OSA Joint Topical Meeting, "Information Processing in Astronomy and Optics", FA03 (1983)

F. Roddier

Special Requirements for High Angular Resolution Interferometry

Proc. ESO Workshop, "Site Testing for Future Large Telescopes", 193 (1983)

F. Roddier

Review on Increase in Spatial Resolving Power

Japan-France Seminar, "Active Phenomena in the Outer Atmosphere of the Sun and Stars", 22 (1983)

F. Roddier

Indirect Imaging in Optical Astronomy

Proc. Workshop, "Unconventional Imagery", 23 (1984)

F. Roddier

New Prospects in High Angular Resolution Stellar Interferometry

Proc. ICO Conf., "Progress in Optical Physics" (1984)

F. Roddier, J. B. Breckinridge

Interferometric Image Reconstruction Using the L. D. R. in a Light Bucket Mode

Bull. Am. Ast. Soc., 16, (No. 3, Part 2), 832 (1984)

F. Roddier, P. Lena

Long-baseline Michelson Interferometry with Large Ground-based Telescopes Operating at Optical Wavelengths. I - General Formalism. Interferometry at Visible Wavelengths

J. Optics (Paris), 15, 171-182 (1984)

F. Roddier, P. Lena

Long-baseline Michelson Interferometry with Large Ground-based Telescopes Operating at Optical Wavelengths. II - Interferometry

J. Optics (Paris), 15, 363-374 (1984)

F. Roddier, C. Roddier, M. Karovska

High Angular Resolution Interferometric Observations of Betelgeuse in the Visible, *Proc. UCLA Workshop, "Mass Loss from Red Giants"*, 63 (1984)

F. Roddier, P. Eisenhardt

IR Background Speckle Noise Induced by Adaptive Optics in Astronomical Telescopes
Proc. SPIE, 556.2 (1985)

F. Roddier, C. Roddier

An Image Reconstruction of Alpha Orionis
Ap. J., 295, L21-L23 (1985)

F. Roddier, C. Roddier

NOAO Infrared Adaptive Optics Program II: Modeling Atmospheric Effects in Adaptive Optics Systems for Astronomical Telescopes
Proc. SPIE, 628, 298-304 (1986)

F. Roddier, P. Eisenhardt

NOAO Infrared Adaptive Optics Program IV: IR Background Speckle Noise Induced by Adaptive Optics in Astronomical Telescopes
Proc. SPIE, 628, 314-322 (1986)

F. Roddier, C. Roddier, R. Petrov, F. Martin, G. Ricort, C. Aime

New Observations of Alpha Orionis with a Rotation Shearing Interferometer
Ap. J., 305, L77-L80 (1986)

F. Roddier

Pupil Plane Versus Image Plane in Michelson Stellar Interferometry
Proc. OSA Topical Meeting, "Quantum-limited Imaging and Image Processing", 28-31 (1986)

F. Roddier

Pupil Plane Versus Image Plane in Michelson Stellar Interferometry
J. Opt. Soc. Am. A., 3, 2160-2166 (1986)

F. Roddier

Ground-based Interferometry, *Proc. Workshop, "Thirteenth Texas Symp. in Relativistic Astrophysics: New Telescope and Detector Technology"* (1986)

F. Roddier, C. Roddier

Phase Closure with Rotational Shear Interferometers
Opt. Comm., 60, 350-352 (1986)

F. Roddier

Triple Correlation as a Phase Closure Technique
Opt. Comm., 60, 145-148 (1986)

F. Roddier, C. Roddier

Phase Closure with Rotational Shear Interferometers

Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 79-82 (1987)

F. Roddier, C. Roddier
Image Reconstruction from Rotational Shear Interferograms: Laboratory and Astronomical Results
Proc. SPIE, 828, 8, 108 (1987)

F. Roddier
Single Aperture Interferometry: General Introduction
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 1-8 (1987)

F. Roddier
Signal-to-Noise Ratios and Beam Combination
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 135-138 (1987)

F. Roddier
Redundant Versus Non-redundant Beam Recombination in Aperture Synthesis with Coherent Optical Arrays
J. Opt. Soc. Am. A., 1396 (1987)

F. Roddier
Imaging Stellar Structures and Surfaces
Proc. 27th Liege International Astrophysical, "Observational Astrophysics with High Precision Data" (1987)

F. Roddier, C. Roddier
Image Reconstruction from Rotational Shear Interferograms: Laboratory and Astronomical Results
Proc. SPIE, 828, 108-113 (1987)

F. Roddier
Imaging Strategies with a Space-borne Interferometer
Proc. ESA Workshop, "Optical Interferometry in Space", 23-30 (1987)

F. Roddier, J. C. Christou
Phases Variances from Triple Correlation Analysis
Opt. Comm., 65 (2), 115-120 (1988)

F. Roddier, C. Roddier, National Optical Astronomy Observatories; N. Roddier, Univ. of Arizona
Curvature Sensing; A New Wavefront Sensing Method
Proc SPIE, 976, 203 (1988)

F. Roddier, C. Roddier
Image Reconstruction from Rotational Shearing Interferograms
Proc. SPIE, 879, 4-9 (1988)

F. Roddier
Statistical Optics, Atmosphere Turbulence

Proc. NATO Advanced Study Institute, "Diffraction-Limited Imaging with Very Large Telescopes",
2 (1988)

F. Roddier, C. Roddier, S. van Peurse
**Diffraction-limited Imaging Through Aberrated Optics Using Pupil-plane and/or Image-plane
Information**

Proc. SPIE, 1059, 173-179 (1989)

F. Roddier
Interferometric Imaging in Optical Astronomy
Physics Reports, (in press)

A. E. Rogers, H. F. Hinteregger, A. R. Whitney, C. C. Counselman, I. I. Shapiro, J. J. Wittels, W.
K. Klemperer, W. W. Warnock, T. A. Clark, L. K. Hutton, G. E. Marandino, B. O. Ronnang,
O. E. Rydbeck, A. E. Neill

**The Structure of Radio Sources 3C 273B and 3C 84 Deduced from the "Closure" Phases and
Visibility Amplitudes Observed with Three-element Interferometers**

Ap. J., 193, 293-301 (1974)

A. E. Rogers
Methods of Using Closure Phases in Radio Aperture Synthesis
Proc. SPIE, 231, 10-17 (1980)

G. L. Rogers
The Stellar Interferometry of a Star Cluster with a Prominent Variable
Opt. Comm., 30, 1-4 (1979)

D. H. Rogstad
**A Technique for Measuring Visibility Phase with an Optical Interferometer in the Presence of
Atmospheric Seeing**
Appl. Opt., 7, 585-588 (1968)

F. Rosa, J. J. Fuensalida
Image Sharpening Algorithm at Low Light Level. On-Line Reduction
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 479 (1988)

P. Roussel
ESA: Technological Activities Related to Optical Interferometry
Proc. ESA Workshop, "Optical Interferometry in Space", 95-102 (1987)

J. Ruder
Physical Principles of the New Interferometric Methods
Mitt. Astron. Ges. (Germany), 40, 23-36 (1976)

F. D. Russel, J. W. Goodman
**Nonredundant Arrays and Postdetection Processing for Aberration Compensation in Incoherent
Imaging**
J. Opt. Soc. Am., 61, 182-191 (1971)

S. K. Saha, A. P. Jayarajan, K. E. Rangarajan, S. Chatterjee
Simulation of Multiple Aperture Synthesis
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 661 (1988)

J. L. C. Sanz, T. S. Huang
Unique Reconstruction of a Band-limited Multidimensional Signal from Its Phase Magnitude
J. Opt. Soc. Am., 73, 1446-1450 (1983)

J. L. C. Sanz, T. S. Huang, F. Cukierman
Stability of Unique Fourier-Transform Phase Reconstruction
J. Opt. Soc. Am., 73, 1442-1445 (1983)

O. Sasaki, T. Yamagami
Phase Retrieval for Nonnegative and Finite-extent Objects
J. Opt. Soc. Am. A., 4, 720-726 (1987)

T. Sato, S. Wadaka, J. Yamamoto, J. Ishii
Imaging System Using Intensity Triple Correlator, *Appl. Opt.*, 17, 2047-2052 (1978)

T. Sato
Differential Detection of Coherence Functions and Its Applications
J. Opt. Soc. Am., 70, 97-103 (1980)

R. J. Sault
Uniqueness Condition for the Phase Problem in One Dimension
Opt. Lett., 9, 325-326 (1984)

R. J. Scaddan, J. C. Dainty
A Simple Method of Estimating the RMS Phase Variation Due to Atmospheric Turbulence
Opt. Comm., 21, 51-54 (1977)

R. J. Scaddan, J. G. Walker
Statistics of Stellar Speckle Patterns
Appl. Opt., 17, 3779-3784 (1978)

R. J. Scaddan, B. L. Morgan, J. C. Dainty
Diffraction-Limited Observations of Binary Star Systems
Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 17 (1979)

G. D. Schmidt, J. R. P. Angel, R. Harms
Speckle Interferometry with a Linear Digicon Detector
P. A. S. P., 89, 410-414 (1977)

A. M. Schneiderman, P. F. Keller, M. G. Miller
Laboratory-Simulated Speckle Interferometry
J. Opt. Soc. Am., 65, 1287-1292 (1975)

A. M. Schneiderman, D. P. Karo
How to Build a Speckle Interferometer
Proc. SPIE, 75, 70-82 (1976)

A. M. Schneiderman, D. P. Karo
Measurements of RO with Speckle Interferometry
J. Opt. Soc. Am., 68, 348-351 (1978)

- A. M. Schneiderman, D. P. Karo
Speckle Interferometry Measurements of Atmospheric Non-Isoplanicity Using Double Stars
J. Opt. Soc. Am., 68, 338-347 (1978)
- A. M. Schneiderman, D. P. Karo
Imaging in the Presence of Random Wave Aberrations
J. Opt. Soc. Am., 69, 717-724 (1979)
- P. D. Shubert
Satellite Imaging with Speckle Interferometry
Proc. S.P.I.E. No. 1351, in press (1990)
- T. J. Schulz, D. L. Snyder
New Method for Forming Images of Objects from Their Fourier Magnitude
Proc. S.P.I.E. No. 1351, in press (1990)
- G. Schumacher
CERGA High Angular Resolution Optical Network
Proc. ESA Workshop, "Optical Interferometry in Space", 139-144 (1987)
- G. Schumacher, A. Boisshot, P. Cruzalebes, M. Dugue, L. Koechlin, Y. Rabbia, F. Vakili
CHARON - the French Stellar Imaging Project
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 743 (1988)
- F. R. Schwab
Relaxing the Isoplanatism Assumption in Self-calibration; Applications to Low-frequency Radio Interferometry
A. J., 89, 1076-1081 (1984)
- U. J. Schwarz
Mathematical-statistical Description of the Iterative Beam Removing Technique (Method CLEAN)
Astron. Astrophys., 65, 345-356 (1978)
- M. S. Scivier, T. J. Hall, M. A. Fiddy
Phase Unwrapping Using the Complex Zeros of a Transmitted Function and the Presence of Ambiguities in Two Dimensions
Opt. Acta, 31, 619-623 (1984)
- M. S. Scivier, M. A. Fiddy
Ambiguities in Magnitude Only Reconstruction of Band-limited Signals
Opt. Lett., 10, 369-371 (1985)
- M. S. Scivier, M. A. Fiddy
Phase Ambiguities and the Zeros of Multidimensional Band-limited Functions
J. Opt. Soc. Am., A2, 693-697 (1985)
- M. J. Selby, R. Wade, C. Sanchez Magro
Speckle Interferometry in the Near Infra-Red
M. N. R. A. S., 187, 553-566 (1979)

Seve

Restoration of Turbulence Degraded Images Using the Knox and Thompson Algorithm
Proc. SPIE, 627, 829-837 (1986)

S. B. Shaklan, E. K. Hege
Detection of the Lensing Galaxy in PG 1115+08
Ap. J., 303, 605-613 (1986)

S. B. Shaklan, F. Roddier
Single-mode Fiber Optics in a Long-baseline Interferometer, *Appl. Opt.*, 26, 2159-2163 (1987)

S. B. Shaklan, F. Roddier
Coupling Starlight into Single-mode Fiber Optics
Appl. Opt. (in press)

M. Shao, D. H. Staelin
Long-Baseline Optical Interferometry for Astronomy
J. Opt. Soc. Am., 67, 81-86 (1977)

M. Shao
Optical Interferometers in Astronomy
Proc. IAU Coll. No. 48, "Modern Astrometry", 313-324 (1979)

M. Shao, D. H. Staelin
First Fringe Measurements with a Phase-tracking Stellar Interferometer
Appl. Opt., 19, 1519-1522 (1980)

M. Shao
Status of the M. I. T. Stellar Interferometer Project
Proc. Sac. Peak. Conf., "Solar Instrumentation: What's Next?", 240-242 (1981)

M. Shao, M. Colavita, D. H. Staelin
The Mark III Astrometric Interferometer
Proc. SPIE, 628, 250-254 (1986)

M. Shao, M. Colavita, D. H. Staelin, R. Simon, K. Johnston
Present Status and Future Plans for the Two-Color Astrometric Interferometer Project
Proc. IAU Symposium No. 109, "Astrometric Techniques" (1986)

M. Shao, M. Colavita
Status of the Mark III Interferometer
Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using Interferometric Techniques", 115-120 (1987)

M. Shao, M. Colavita, D. H. Staelin, K. J. Johnston, R. S. Simon, J. A. Hughes, J. L. Hershey
Application of Interferometry to Optical Astrometry
A. J., 93, 1280-1286 (1987)

M. Shao
Practical Limits of Ground-based Optical Interferometry and Its Impact on Space Interferometry
Proc. ESA Workshop, "Optical Interferometry in Space", 145-150 (1987)

M. Shao, M. Colavita, B. E. Hines, D. H. Staelin, D. J. Hutter, K. J. Johnston, D. Mozurkewich,
R. S. Simon, E. O. Hulburt, J. L. Hershey, J. A. Hughes, G. H. Kaplan
The Mark III Stellar Interferometer
Astron. Astrophys. (in press)

M. Shao
The Mark III Interferometer and Its Successors
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 823 (1988)

M. Shao, M. M. Colavita, B. E. Hines, D. H. Staelin, D. J. Hutter, K. J. Johnston, D.
Mozurkewich, R. S. Simon, J. L. Hershey, J. A. Hughes, G. H. Kaplan
The Mark III Stellar Interferometer
Astron. Astrophys., 193, 357-371 (1988)

M. Shao, M. M. Colavita, B. E. Hines, D. H. Staelin, D. J. Hutter, K. J. Johnston, D.
Mozurkewich, R. S. Simon, J. L. Hershey, J. A. Hughes, G. H. Kaplan
Initial Stellar Diameter Measurements with the Mark III Interferometer
Ap. J., 327, 905-910 (1988)

M. Shao
Comparison of Ground-and-Space-Based Interferometry Technical Issues
Proc. S.P.I.E., 1237, in press (1990)

J. H. Shapiro
The Seeing Limit Can Resolve the Isoplanatic Patch
J. Opt. Soc. Am., 66, 469-477 (1976)

J. H. Shapiro
Propagation-Medium Limitations on Phase Compensated Atmospheric Imaging
J. Opt. Soc. Am., 66, 460-469 (1976)

M. M. Shara, R. Doxsey, E. . Wells, H. A. McAlister
**The Fraction of Close Binaries Among Hubble Space Telescope Guide Stars - Operation
Consequences, Workaround and Suggestions for Designers of Future Space Observatories**
P. A. S. P., 99, 223 (1987)

J. W. Sherman
A-Posteriori Restoration of Atmospherically Degraded Images Using Multiframe Imagery
Proc. SPIE, 74, 249-258 (1976)

J. W. Sherman
Speckle Imaging Using the Principal Value Decomposition Method
Proc. SPIE, 149, 82-90 (1978)

J. W. Sherman
Speckle Imaging Under Non-Isoplanatic Conditions
Proc. SPIE, "Applications of Speckle Phenomena", 51-57 (1980)

R. K. Shevgaonkar
Maximum Entropy Method for Phase-unstable Aperture Synthesis
Astron. Astrophys., 162, 349-358 (1986)

F. Sibille, A. Chelli, P. Lena
Infrared Speckle Interferometry

Astron. Astrophys., 79, 315-328 (1979)

F. Sibille, P. Lena, A. Chelli, D. Stefanovitch

Two-dimensional Infrared Speckle Interferometry with a 32x32 InSb Charge-injection Device (CID) Array

Proc. SPIE, 331, 26-28 (1982)

F. Sibille, D. Stefanovitch, A. Chelli

Application of Infrared Arrays to Speckle Interferometry, *Proc. Second ESO Infrared Workshop*, 207-213 (1982)

A. M. Sinton, B. L. K. Davey, R. H. T. Bates

Augmenting Shift-and-add with Zero-and-add

J. Opt. Soc. Am. A., 3, 1010-1017 (1986)

A. M. Sinton, P. H. Gardenier, R. H. T. Bates

Reinvestigation of Optical Interference at Low Light Levels

Speculations in Sci. Technology, 9, 269-278 (1986)

W. M. Sinton

An Achromatic Stellar Interferometer, *A. J.*, 59, 369-375 (1954)

J. Skilling

Maximum Entropy Image Reconstruction from Phaseless Fourier Data

Proc. OSA Topical Meeting, "Signal Recovery and Synthesis with Incomplete Information and Partial Constraints", ThA5-1/4 (1983)

J. Skilling, R. K. Bryan

Maximum Entropy Image Reconstruction: General Algorithm

M. N. R. A. S., 211, 111-124 (1984)

R. C. Smithson, M. L. Peri

Partial Correction of Astronomical Images with Active Mirrors

J. Opt. Soc. Am. A., 6, 92-97 (1989)

L. G. Sodin

Prospects for Achieving the Diffraction Limit of Telescope Resolution in a Turbulent Atmosphere

Soviet Astron. Letters, 2, 8, 220 (1976)

L. Y. Sorokin, A. A. Tokovinin

Chromatic Position Difference: A Technique for Studying Double Stars

Sov. Astron. Lett., 11, 226-232 (1985)

R. V. Stachnik, P. Nisenson, D. C. Ehn, R. H. Hudgin, V. E. Schirf

Speckle Image Reconstructions of Solar Features

Nature, 266, 149-151 (1977)

R. V. Stachnik, P. Nisenson, C. Papaliolios

Solar Speckle Imaging

Proc. Sac. Peak. Conf., "Solar Instrumentation: What's Next?" 502-509 (1981)

R. V. Stachnik, P. Nisenson, R. W. Noyes
Speckle Image Reconstruction of Solar Features
Ap. J., 271, L37-L40 (1983)

R. V. Stachnik, D. Y. Gezari
SAMSI: An Orbiting Spatial Interferometer for Micro-Arcsecond Astronomical Observations
Proc. ESA Colloq., "Kilometric Optical Arrays in Space", 35-42 (1985)

R. V. Stachnik, M. Faucherre
SAMSI: A Spacecraft Array for Michelson Spatial Interferometry
Proc. ESA Workshop, "Optical Interferometry in Space", 61-62 (1987)

R. V. Stachnik
NASA: Comments on NASA Plans for Interferometry in Space
Proc. ESA Workshop, "Optical Interferometry in Space", 111-112 (1987)

R. V. Stachnik and A. Opp
Lunar Outpost Astrophysics Program, Program Overview
NASA Headquarters Report (Code EZ), preprint (1990)

H. van de Stadt
An Experiment with an Optical Heterodyne Interferometer
Opt. Comm., 2, 153-156 (1970)

H. van de Stadt
Near Heterodyne Interferometer for the Measurement of Stellar Diameters
Proc. ICO-9 Conf., "Space Optics" (1973)

H. Stark
Image Recovery: Theory and Application
Academic Press (1987)

R. T. Stebbins, P. L. Bender, J. E. Faller
Proposed Studies of a 30-Meter Imaging Interferometer Concept
Proc. ESA Workshop, "Optical Interferometry in Space", 85-92 (1987)

Stephan
Lettre a Fizeau
C. R. Acad. Sc. (Paris), 76, 1008-1010 (1873)

Stephan
Sur l'Extreme Petitesse du Diametre Apparent des Etoiles Fixes
C. R. Acad. Sc. (Paris), 78, 1008-1112 (1874)

W. Stork, G. Weigelt
Speckle Spectroscopy
Proc. ICO-13 Conf., "Optics in Modern Science and Technology", 642 (1984)

P. A. Strittmatter
The Steward Observatory Speckle Interferometry Program

Proc. SPIE, 243, 75-79 (1980)

E. C. Sutton, J. W. V. Storey, A. L. Betz, C. H. Townes, D. L. Spears
Spatial Heterodyne Interferometry of VY Canis Majoris, Alpha Orionis, Alpha Scorpii and R Leonis at 11 Microns
Ap. J., 217, L97-L100 (1977)

E. C. Sutton, J. W. V. Storey, C. H. Townes, D. L. Spears
Variations in the Spatial Distribution of 11 Micron Radiation from Omicron Ceti
Ap. J., 224, L123-L126 (1978)

E. C. Sutton
Results and Future Uses of Heterodyne Spatial Interferometry at 11 Microns Interferometry at 11 Microns
Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 16 (1979)

E. C. Sutton, A. L. Betz, J. W. V. Storey, D. L. Spears
The Brightness Distribution of IRC+10216 at 11 Microns
Ap. J., 230, L105-L108 (1979)

E. C. Sutton, S. Subramanian, C. H. Townes
Interferometric Measurements of Stellar Positions in the Infrared
Astron. Astrophys., 324-331 (1982)

H. W. Swan, J. W. Goodman
Imaging Through Atmospheric Turbulence Using Modified Log Gradients
Proc. SPIE, 358, 116-120 (1982)

H. W. Swan
Phase Averaging of Image Ensembles by Using Cepstral Gradients
J. Opt. Soc. Am., 73, 1488-1492 (1983)

P. N. Swanson
Four Astronomical Observatories for the Lunar Outpost
Proc. NASA Workshop "Astrophysics from the Moon", ed. M. Mumma and H. Smith, (Annapolis, MD Feb. 5, 1990), in press (1990)

G. W. Swenson, C. S. Gardner, R. H. T. Bates
A New Concept for a Giant Optical/Infrared Telescope
Summaries of Papers, Australia Opt. Soc. Conf., 24-25 (1984)

G. W. Swenson
Radio Astronomy Precedent for Optical Interferometer Imaging
J. Opt. Soc. Am. A., 3, 1311-1319 (1986)

G. W. Swenson, C. S. Gardner, R. H. T. Bates
On Prospects for an Extremely Large Optical/Infrared Array Telescope
Proc. SPIE, 628, 277-280 (1986)

G. W. Swenson, C. S. Gardner, R. H. T. Bates
Optical Synthesis Telescopes
Proc. SPIE, 643, 129-140 (1986)

- M. V. Sykes, F. V. Vilas, T. L. Page, H. J. Smith, J. O. Burns, M. Colavita, J. Snyder, S. A. Stern, D. L. Talent
A Plan for the Development of Lunar Astronomy
Proc. NASA Workshop "Astrophysics from the Moon", ed. M. Mumma and H. Smith, (Annapolis, MD Feb. 5, 1990), in press (1990)
- S. P. Synnott, R. E. Freeland, E. Ribak, E. F. Tubbs
NASA: JPL Study on Optical Imaging Interferometry in Space, *Proc. ESA Workshop, "Optical Interferometry in Space"*, 113-116 (1987)
- W. J. Tango, R. Q. Twiss
Diffraction Effects in Long Path Interferometers
Appl. Opt., 13, 1814-1819 (1974)
- W. J. Tango
The Monteporzio Two Meter Amplitude Interferometer
Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 13 (1979)
- W. J. Tango
The Limiting Sensitivity and Visibility Loss in a Small Aperture Amplitude Interferometer
Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 12 (1979)
- W. J. Tango
A Note on Two Aperture Pupil Plane Stellar Speckle Interferometry
Opt. Acta, 26, 109-111 (1979)
- W. J. Tango, J. Davis, R. J. Thompson, R. Hanbury-Brown
A "Narrabri" Binary Star Resolved by Speckle Interferometry
Proc. Astron. Soc. Australia, 3, (1979)
- W. J. Tango, R. Q. Twiss
Michelson Stellar Interferometry
Progress in Optics, XVII, 241-277 (1980)
- C. Thom, P. Granes, F. Vakili
Optical Interferometric Measurements of Gamma Cassiopeiae's Envelope in the H Alpha Line
Astron. Astrophys., 165, L13-L15 (1986)
- D. M. Titterington
General Structure of Regularization Procedures in Image Reconstruction
Astron. Astrophys., 144, 381-387 (1985)
- A. A. Tokovinin
An Interferometer for Determining the MTF of the Atmosphere
Sov. Astron. Lett., 229-230 (1978)
- A. A. Tokovinin
Two-point Speckle Interferometry
Sov. Astron. Lett., 204-206 (1978)
- A. A. Tokovinin
-

A Phase Grating Stellar Interferometer

Sov. Astron. Lett., 5, 229-231 (1979)

A. A. Tokovinin

The Influence of Turbulence on the Operation of a Stellar Interferometer

Sov. Astron. Lett., 6, 386-388 (1980)

A. A. Tokovinin

The Diameters of Vesta and Ceres Measured by Interferometry

Sov. Astron. Lett., 6, 100-101 (1980)

A. A. Tokovinin

Interferometric Observations of Double Stars in 1983 and 1984

Astron. Astrophys. Suppl. Ser., 61, 483 (1985)

A. A. Tokovinin, R. M. Ismailov

Interferometric Observations of Double Stars in 1985 and 1986

Astron. Astrophys., Suppl. Ser., 72, 563-565 (1988)

J. Tomkin, H. A. McAlister, W. I. Hartkopf, F. C. Fekel

The Orbit of the Speckle and Double-Lined Spectroscopic Binary Chi Draconis

A. J., 93, 1236 (1987)

P. van Toorn, A. Huizer, A. Greenaway

Image Reconstruction from Power Spectra

Proc. Sac. Peak. Conf., "Solar Instrumentation: What's Next?", 510-515 (1981)

P. van Toorn, A. H. Greenaway, A. M. J. Huizer

Phaseless Object Reconstruction

Opt. Acta, 7, 767-774 (1984)

C. Townes

Infrared Imaging and Interferometry

Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s", 797-824 (1980)

C. H. Townes, E. C. Sutton, J. W. V. Storey

Infrared Heterodyne Interferometry

Proc. ESO/CERN Conf., "Optical Telescopes of the Future", 409-425 (1978)

C. H. Townes, E. C. Sutton

Multiple Telescope Infrared Interferometry

Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths", 199-223 (1981)

C. H. Townes

Spatial Interferometry in the Mid-infrared Region

J. Astrophys. Astr., 5, 111-130 (1984)

C. H. Townes, W. C. Danchi, B. Sadoulet, E. C. Sutton

Long Baseline Spatial Interferometer for the IR

Proc. SPIE, 628, 281-284 (1986)

W. A. Traub

Laboratory Demonstration of Image Reconstruction for COSMIC
Proc. SPIE, "Synthetic Aperture Systems", 143-147 (1984)

W. A. Traub, N. P. Carleton

COSMIC: A High Resolution, Large Collecting Area Telescope
Bull. Am. Ast. Soc., 16, 805-809 (1984)

W. A. Traub, N. P. Carleton **COSMIC: A High Resolution, Large Collecting Area Telescope**
Proc. ESA Colloq., "Kilometric Optical Arrays in Space", 121-128 (1985)

W. A. Traub

Slicing the Sky: Sharper Images with an Orbiting Array of Optical Telescopes
Infinite Vistas: New Tools for Astronomy, Chas. Scribner's Sons, 67-103 (1985)

W. A. Traub

Combining Beams from Separated Telescopes
Appl. Opt., 25, 528-532 (1986)

W. A. Traub **COSMIC**

Proc. ESA Workshop, "Optical Interferometry in Space", 63-66 (1987)

W. A. Traub

Binary Star Explorer
Proc. ESA Workshop, "Optical Interferometry in Space", 67-68 (1987)

W. A. Traub

Polarization Effects in Stellar Interferometers
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 1029 (1988)

W. A. Traub, M. G. Lacasse

Laboratory Measurements of Visibility Using Dispersed Fringes in Wavenumber Space
Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 947 (1988)

J. M. Tribolet

A New Phase Unwrapping Algorithm
IEEE Trans. ASSP, 25, 170-177 (1977)

R. Q. Twiss, A. G. Little, R. Hanbury-Brown

Correlation Between Photons, in Coherent Beams of Light, Detected by a Coincidence Counting Technique
Nature, 180, 324-326 (1957)

R. Q. Twiss

Applications of Intensity Interferometry in Physics and Astronomy
Opt. Acta, 16, 423-451 (1969)

M. -H. Ulrich

Optical Observations of Active Galaxies and Quasars at High Resolution
Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths", 411-422 (1981)

M. -H. Ulrich

**Ground Based High Angular Resolution Observations of Quasars and Nuclei of Galaxies:
Current Results and Future Aims**

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 33 (1988)

F. Vakili, A. Glentzlin

Technical Performances of Spherical Concrete Telescopes

Proc. KPNO Conf., "Optical and Infrared Telescopes for the 1990s", 1013-1019 (1980)

F. Vakili, D. Bonneau, L. Koechlin

**High Angular Resolution Observation of Single and Close Binary Stars with the CERGA
Interferometer**

Proc. ESO Conf., 399-404 (1981)

F. Vakili

Polarizing Auxiliary Instrumentation and Astrophysical Goals for Optical Interferometry

Proc. SPIE, 445, 484-489 (1983)

F. Vakili, P. Granes, D. Bonneau, M. Noguchi, R. Hirata

**On the Upper Limit of the Angular Diameter of Gamma Cassiopeiae with the Two-Telescope
Interferometer at CERGA**

Publ. Astron. Soc. Japan, 36, 231-237 (1984)

F. Vakili

TRIANGLE: A Different Design for a Three Satellite Interferometer in Space

Proc. ESA Colloq., "Kilometric Optical Arrays in Space", 107-112 (1985)

F. Vakili, Y. Rabbia, L. Koechlin

Recent Results with I2T in the Visible

Proc. IAU Commission No. 9, (1986)

F. Vakili, Y. Rabbia, I. Percheron

Image Reconstruction in Optical Long Baseline Interferometry Using Spectral Visibility Fitting

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 769 (1988)

P. Venkatakrisnan, S. Chatterjee

**On the Saturation of the Refractive Index Structure Function. I. Enhanced Hopes for Long
Baseline Optical Interferometry**

M. N. R. A. S., 224, 265-269 (1987)

P. Venkatakrisnan

**On the Saturation of the Refractive Index Structure Function. II. Influence of the Correlation
Length on Astronomical Seeing**

M. N. R. A. S., 229, 379-382 (1987)

M. Vivekanand, D. Morris, D. Downes

Continuously-Moving Telescopes in Optical Interferometry

Proc. ESO Conf. No. 29, "High-Resolution Imaging by Interferometry", 1071 (1988)

M. Vivekanand, D. Morris, D. Downes

Continuously Movable Telescopes for Optical Interferometry

Astron. Astrophys., 203, 195-202 (1988)

- D. G. Voelz, J. D. Gonglewski, P. S. Idell, D. C. Dayton
Coherent Image Synthesis Using a Shack-Hartmann Wavefront Sensor
Proc. S.P.I.E. No. 1351, in press (1990)
- S. S. Vogt, G. D. Penrod
Doppler Imaging of Spotted Stars: Application to the RS Canum Venaticorum Star HR 1099
P. A. S. P., 95, 565-576 (1983)
- P. R. Vokac
An Online Digital Autocorrelator for Speckle Interferometry
Proc. SPIE, 119, 223-231 (1977)
- R. R. Vondrak
Lunar Environment, Atmosphere and Radiation
Proc. NASA Workshop "Astrophysics from the Moon", ed. M. Mumma and H. Smith, (Annapolis, MD Feb. 5, 1990), in press (1990)
- R. Wade, M. J. Selby
Speckle Interferometry in the Near Infrared
Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 29 (1979)
- R. E. Wagner
Postprocessing of Imagery from Active Optics: Some Pitfalls
Appl. Opt., 16, 175-179 (1977)
- J. G. Walker
Optimum Exposure Time and Filter Bandwidth in Speckle Interferometry
Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 25 (1979)
- J. G. Walker
Signal to Noise Ratio in Speckle Interferometry in the Photon Counting Autocorrelation Mode at Low Light Levels
Opt. Comm., 29, 273-278 (1979)
- J. G. Walker
Statistical Accuracy in Stellar Speckle Interferometry at Low Light Levels
Opt. Acta, 28, 885-905 (1981)
- J. G. Walker
The Phase Retrieval Problem: A Solution Based on Zero Location by Exponential Apodization
Opt. Acta, 28, 735-738 (1981)
- J. G. Walker
Object Reconstruction from Turbulence-degraded Images
Opt. Acta, 28, 1017-1019 (1981)
- J. G. Walker
Computer Simulation of a Method for Object Reconstruction from Stellar Interferometry Data
Appl. Opt., 21, 3132-3137 (1982)
- W. Waller
-

Field of View on Actively Controlled Long Baseline Stellar Interferometry
J. Opt. Soc. Am., 70, 1096-1100 (1980)

M. Walter, G. Weigelt
Roll Deconvolution of Space Telescope Data
Adv. Space Res., 5, No. 3, 169 (1985)

A. Walther
The Question of Phase Retrieval in Optics
Opt. Acta, 10, 41-49 (1963)

C. P. Wang
High Resolution Imaging Through Turbulent Media
Opt. Comm., 10, 253-257 (1974)

C. P. Wang
Isoplanicity for Imaging Through Turbulent Media
Opt. Comm., 14, 200-204 (1975)

D. C. Watson, L. B. Race Jr.
Image Reconstruction in the Presence of Noise
Proc. SPIE, 828, 8, 149 (1987)

S. M. Watson, J. P. Mills, S. K. Rogers
Two-point Resolution Criterion for Multi-aperture Optical Telescopes
J. Opt. Soc. Am. A., 5, 893-903 (1988)

G. Weigelt
Large Field Speckle Interferometry
Optik, 43, 111-128 (1975)

G. Weigelt
Modified Astronomical Speckle Interferometry, Speckle Masking
Opt. Comm., 21, 55-59 (1977)

G. Weigelt
Speckle Holography Measurements of the Stars Zeta Cancri and ADS 3358
Appl. Opt., 17, 2660-2662 (1978)

G. Weigelt
Astronomical Speckle Interferometry and Speckle Holography
Proc. ICO-11 Conf. (1978)

G. Weigelt
Speckle Interferometry Measurements of 12 Binary Stars
Astron. Astrophys., 68, L5-L6 (1978)

G. Weigelt
Speckle Interferometry with a 1 Meter Telescope
Astron. Astrophys., 67, L11-L12 (1978)

G. Weigelt

High-Resolution Astrophotography: New Isoplanicity Measurements and Speckle Holography Applications

Opt. Acta, 26, 1351-1357 (1979)

G. Weigelt

Speckle Interferometry and Image Reconstruction

Proc. IAU Coll. No. 50, "High Angular Resolution Stellar Interferometry", Paper 33 (1979)

G. Weigelt

Stellar Speckle Interferometry and Speckle Holography at Low Light Levels

Proc. SPIE, 243, 103-110 (1980)

G. Weigelt

Speckle Interferometry, Speckle Holography, Speckle Spectroscopy, and Reconstruction of High-resolution Images from ST Data

Proc. ESO Conf., "Scientific Importance of High Angular Resolution at Infrared and Optical Wavelengths", 95-114 (1981)

G. Weigelt

Interferometric Methods in Optical Astronomy

Proc. ICO-12 Conf., "Current Trends in Optics", 28-39 (1981)

G. Weigelt

Speckle Interferometry and Related Techniques with Advanced Technology Optical Telescopes

Proc. SPIE, 332, 284-291 (1982)

G. Weigelt, B. Wirnitzer

Image Reconstruction by the Speckle Masking Method

Opt. Lett., 8, 389-391 (1983)

G. Weigelt

Image Reconstruction from Speckle-Interferograms, Speckle Spectroscopy, and the Deconvolution of ST Data

Proc. AAS/OSA Joint Topical Meeting, "Information Processing in Astronomy and Optics", FA08 (1983)

G. Weigelt

Speckle Interferometry and Speckle Holography: Techniques and Limitations

Proc. IAU Coll. No. 62, "Current Techniques in Double and Multiple Star Research", 144-153 (1983)

G. Weigelt

Speckle Interferometry, Speckle Masking, Speckle Spectroscopy and Speckle Frame Selection

Proc. IAU Coll. No. 79, "Very Large Telescopes, Their Instrumentation and Programs", 337-345 (1984)

G. Weigelt

High-resolution Imaging with Large Space Telescopes

Proc. ICO-13 Conf., "Optics in Modern Science and Technology", 558 (1984)

G. Weigelt, G. Baier

R 136a in the 30 Doradus Nebula Resolved by Holographic Speckle Interferometry

Astron. Astrophys., 150, L18-L20 (1985)

G. Weigelt, G. Baier, J. Ebersberger, F. Fleischmann, K. -H. Hofmann, R. Ladebeck
**Speckle Interferometry, Image Reconstruction by Speckle Masking, Speckle Spectroscopy,
Multiple-mirror Interferometry**
Proc. SPIE, 556, 238-247 (1985)

G. Weigelt, G. Baier, J. Ebersberger, F. Fleischmann, K. H. Hofmann, R. Ladebeck
**High Resolution Speckle Methods for Overcoming Image Degradation Caused by the Atmosphere
and Telescope Aberrations**
Opt. Engr., 25, 706 (1986)

G. Weigelt, J. Ebersberger
Eta Carinae Resolved by Speckle Interferometry
Astron. Astrophys., 163, L5-L6 (1986)

G. Weigelt
Astronomical Speckle Interferometry and Speckle Masking at Low Light Levels
Proc. OSA Topical Meeting, "Quantum-limited Imaging and Image Processing", 24-27 (1986)

G. Weigelt, K. -H. Hofmann
Imaging Speckle Interferometry in Space: Image Reconstruction by Speckle Masking
J. Opt. Soc. Am. A., 3, 1908-1911 (1986)

G. Weigelt, K. -H. Hofmann, T. Reinheimer
Speckle Masking, Speckle Spectroscopy and Optical Aperture Synthesis
Proc. ESO Workshop, 24, "Second Workshop on the ESO Very Large Telescope", 289-296 (1986)

G. Weigelt, K. -H. Hofmann
Speckle Masking and Speckle Spectroscopy
*Proc. of the 1st ESO/NOAO Workshop, "High Angular Resolution Imaging from the Ground Using
Interferometric Techniques"*, 43-46 (1987)

G. Weigelt
ISIS: Imaging Speckle Interferometer in Space
Proc. ESA Workshop, "Optical Interferometry in Space", 69-72 (1987)

G. Weigelt
High Resolution Astronomical Imaging by Triple Correlation Processing
Proc. SPIE, 828, 8-12 (1987)

G. Weigelt
High Resolution Astronomical Imaging by Triple Correlation Processing
Proc. SPIE, 828, 8, 08 (1987)

G. Weigelt
Speckle Holography, Speckle Masking
Proc. NATO Advanced Study Institute, "Diffraction-Limited Imaging with Very Large Telescopes",
4 (1988)

G. L. Welter, S. P. Worden
A Method for Processing Stellar Speckle Interferometry Data

J. Opt. Soc. Am., 68, 1271-1275 (1978)

G. L. Welter, S. P. Worden
The Angular Diameters of Supergiant Stars from Speckle Interferometry
Ap. J., 242, 673-683 (1980)

W. C. Wickes, R. H. Dicke
An Automatic Interferometer for Double Star Observations
Astron J., 78, 757-768 (1973)

W. C. Wickes, R. H. Dicke
Achromatic Double Star Interferometry
A. J., 79, 1433-1444 (1974)

W. C. Wickes
Interferometric Measurements of Binary Stars
A. J., 80, 655-657 (1975)

W. C. Wickes
Orbits and Masses of Hyades Visual Binaries
A. J., 80, 1059-1064 (1975)

W. C. Wickes
A Phase Grating Stellar Interferometer
Sov. Astron. Lett., 5, 229-231 (1979)

R. L. Wildey
Spatial Filtering of Astronomical Photographs
P. A. S. P., 79, 220-225 (1967)

R. L. Wildey
Spatial Filtering of Astronomical Photographs: II Theory
A. J., 72, 884-886 (1967)

R. L. Wildey
Spatial Filtering of Astronomical Photographs: III Remarks on the Knox-Thompson Re-Apodization
Ap. J., 186, L47-L50 (1973)

M. S. Wilkerson, S. P. Worden
Further Speckle Interferometric Studies of Alpha Orionis
A. J., 82, 642-645 (1977)

B. Wirnitzer
Bispectral Analysis at Low Light Levels and Astronomical Speckle Masking
J. Opt. Soc. Am. A., 2, 14-21 (1985)

M. C. Won, D. Mnyama, R. H. T. Bates
Improving Initial Phase Estimates for Phase Retrieval Algorithms
Opt. Acta, 32, 377-396 (1985)

J. W. Wood, M. A. Fiddy, R. E. Burge

The Zero Location Problem in Fourier Optics

Proc. ICO-12 Conf., "Current Trends in Optics", 67 (1981)

J. W. Wood, M. A. Fiddy, R. E. Burge

Phase Retrieval Using Two Intensity Measurements in the Complex Plane

Opt. Lett., 6, 514-516 (1981)

P. R. Wood, M. S. Bessel, M. A. Dopita

Angular Diameters of Magellanic Cloud Planetary Nebulae. I Speckle Interferometry

Ap. J., 311, 632-636 (1986)

P. R. Wood, S. J. Heatheringham, M. A. Dopita, D. H. Morgan

Angular Diameters and Fluxes of Magellanic Cloud Planetary Nebulae. II High-speed Direct Imaging

Ap. J., 320, 178-181 (1987)

N. J. Woolf

High Resolution Imaging from the Ground

Ann. Rev. Astron. Astrophys., 20, 367-398 (1982)

N. J. Woolf, J. R. P. Angel, D. W. McCarthy

The Versatile Array

Proc. SPIE, 444, 78 (1983)

S. P. Worden

Digital Analysis of Speckle Photographs: The Angular Diameter of Arcturus

P. A. S. P., 88, 69-72 (1976)

S. P. Worden, C. R. Lynds, J. W. Harvey

Reconstructed Images of Alpha Orionis Using Stellar Speckle Interferometry

J. Opt. Soc. Am., 66, 1243-1246 (1976)

S. P. Worden, M. K. Stein, G. D. Schmidt, J. R. P. Angel

The Angular Diameter of Vesta from Speckle Interferometry

Icarus, 32, 450-457 (1977)

S. P. Worden

Astronomical Image Reconstruction in Astronomy

Vistas in Astronomy, 20, 301-307 (1977)

S. P. Worden

Speckle Interferometry

New Scientist, 78, 238-240 (1978)

S. P. Worden, M. K. Stein

Angular Diameter of the Asteroids Vesta and Pallas Determined from Speckle Observations

A. J., 84, 140-142 (1979)

S. P. Worden

Interferometric Determination of Asteroid Diameters

"Asteroids", ed. T. Gehrels, U. of A. Press (1979)

S. P. Worden

High Angular Resolution Astronomical Techniques: Speckle Interferometry and Related Methods
Proc. SPIE, 243, 66-74 (1980)

S. P. Worden, E. K. Hege, E. N. Hubbard, M. S. Gresham, P. A. Strittmatter

Speckle Interferometry I: A Test on an Earth Orbital Satellite
Satellite AFGL Report, Air Force Space Division, SD-TR-82-46 (1980)

S. P. Worden

Recent Interferometric Results

Proc. Sac. Peak. Conf., "Solar Instrumentation: What's Next?", 443-458 (1981)

S. P. Worden, E. K. Hege, E. N. Hubbard, N. J. Woolf, P. A. Strittmatter

The AFGL Image Reconstruction Program II: Speckle Interferometry
AFGL Report, Air Force Space Division, SD-TR-82-45 (1981)

C. G. Wynne

Extending the Bandwidth of Speckle Interferometry

Opt. Comm., 28, 21-25 (1979)

D. C. Youla

Generalized Image Restoration by the Method of Alternating Orthogonal Projection

IEEE Trans. Circuits Syst., CAS-25 (9), 694-702 (1978)

H. Zinnecker, A. Chelli, C. Perrier

Solar Systemsize Protostellar Sources Embedded in the Rho Oph Dark Cloud

Proc. IAU Symposium No. 115, "Star Forming Regions", (1987)

H. Zinnecker, C. Perrier, A. Chelli

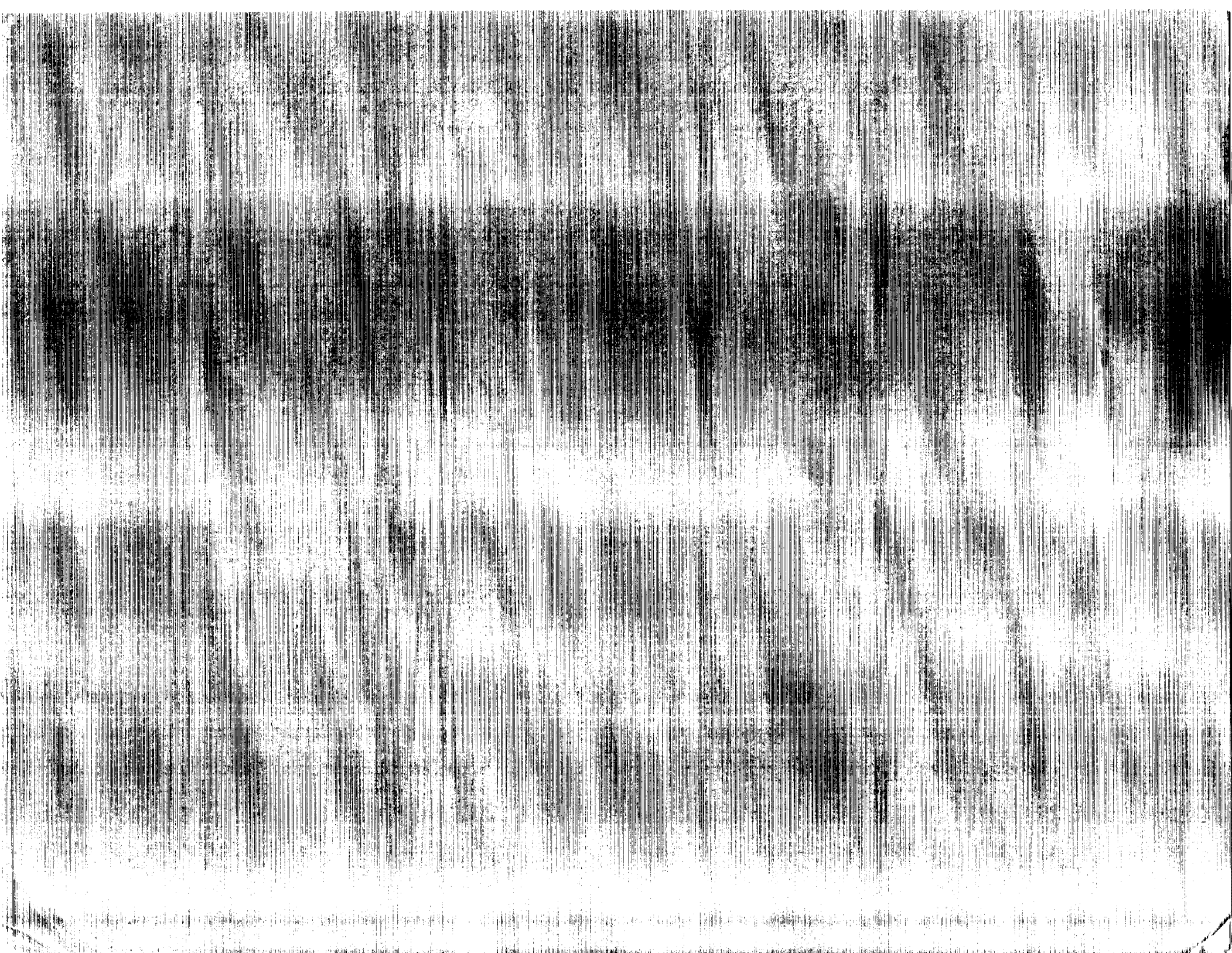
Infrared Speckle Interferometric Observations of Young Low-Mass Stars: Recent Results from ESO

Proc. ESO Conf., No. 29, "High-Resolution Imaging by Interferometry", 505 (1988)



Report Documentation Page

1. Report No. NASA RP-1245		2. Government Accession No.		3. Recipient's Catalog No.	
4. Title and Subtitle Spatial Interferometry in Optical Astronomy				5. Report Date September 1990	
				6. Performing Organization Code 685.0	
7. Author(s) Daniel Y. Gezari, Francois Roddier, and Claude Roddier				8. Performing Organization Report No. 90-069	
				10. Work Unit No.	
9. Performing Organization Name and Address Goddard Space Flight Center Greenbelt, Maryland 20771				11. Contract or Grant No.	
				13. Type of Report and Period Covered Reference Publication	
12. Sponsoring Agency Name and Address National Aeronautics and Space Administration Washington, D.C. 20546-0001				14. Sponsoring Agency Code	
15. Supplementary Notes Daniel Y. Gezari - NASA/Goddard Space Flight Center, Greenbelt, Maryland. Francois Roddier - Institute for Astronomy, University of Hawaii, Honolulu, Hawaii. Claude Roddier - Institute for Astronomy, University of Hawaii, Honolulu, Hawaii.					
16. Abstract This report is a bibliographic guide to publications of spatial interferometry techniques applied to optical astronomy. Listings appear in alphabetical order, by first author, as well as in specific subject categories listed in chronological order, including imaging theory and speckle interferometry, experimental techniques, and observational results of astronomical studies of stars, the Sun, and the solar system.					
17. Key Words (Suggested by Author(s)) Spatial Interferometry, Speckle Interferometry, Optical Astronomy, Telescope Arrays, Imaging Theory, Optics				18. Distribution Statement Unclassified - Unlimited Subject Category 89	
19. Security Classif. (of this report) Unclassified		20. Security Classif. (of this page) Unclassified		21. No. of pages 252	22. Price A12



**NASA Publications and
Sales Administration**

Code NIT-4

**Washington, D.C.
20546-0001**

Special Postage Permit No. 100

SPECIAL FOURTH-CLASS RATE

POSTAGE & FEES PAID

NASA

Permit No. G-27

NASA

POSTMASTER:

**If Undeliverable (Section 154)
Postal Manual) Do Not Return**