Editorial

OPSFA09 (July 2–6, 2007): Proceedings

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1. Preface

The Ninth International Symposium on Orthogonal Polynomials, Special Functions and Applications (OPSFA) was held at CIRM, an International Center for Mathematical Meetings, located at the campus of Luminy, close to Marseille, France, July 2–6, 2007.

It followed the European Conferences of Bar-le-Duc (France, 1984) opened by Jean Dieudonné, Segovia (Spain, 1986), Erice (Italy, 1990), Granada (Spain, 1991), Evian (France, 1992), Delft (Holland, 1994, in honour of Thomas Jan Stieltjes Jr.), Sevilla (Spain 1997), Patras (Greece, 1999, in honour of Theodore Chihara), Rome (Italy, 2001, in honour of Árpád Elbert), Copenhagen (Denmark, 2003, in honour of Richard Askey) and Munich (Germany, 2005). The symposium covered the field of orthogonal polynomials and special functions and their applications in other areas of mathematics, physics, chemistry and biology.

The scientific program includes 17 plenary lectures of 60 minutes, 2 invited lectures of 30 minutes and 89 contributed lectures of 30 minutes in 4 parallel sessions for about 130 participants.

This volume contains the papers accepted for publication after a refereeing process meeting the usual standards of the Journal of Computational and Applied Mathematics. We want to express our thanks to the referees for their work.

We would like to thank all the members of the International Scientific Committee: Francesco Altomare, Richard Askey, Bernhard Beckermann, Christian Berg, Jesus Sanchez Dehesa, Mourad E.H. Ismail, Valeriy Kalyagin, Marek Kowalski, Alphonse Magnus, Francisco Marcellan, Herbert Stahl, Walter Van Assche for their valuable cooperation and advices.

2. Foreword by Jacek Gilewicz

It is my pleasure to welcome to the ninth Orthogonal Polynomials, Special Functions and Applications conference. I still remember the first, held in 1984 in Bac-le Duc, the birthplace of Laguerre. That time the cream of approximation community came to France to listen to Alphonse Phillipe Magnus' proof of the Frued hypothesis (Alphonse! Show up! Where you are?)

Nice results have appeared during each of the consecutive conferences in this series and, I hope, the present one is going to bring further, pleasant surprises in this matter.

Each of the organizers was trying to delight the palate of the participants. Thus we had "cochinillo asado othogonales" in Segovia, Sicilian kitchen in Erice or Greek in Patras.

Now a request to all prospective authors of the proceedings papers. The editors are demanding to limit the volume more and more so it may happen that not more than 40 percent of valuable paper cannot fit in the proceeding issue. Therefore the authors are strongly encouraged to make their paper as concise as possible and the referees are asked to grade the papers like A (the best), B and C.

I wish you a pleasant stay in Luminy!

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4. Accepted papers

The corresponding author is indicated by *emphasis*.

1. M. Alvarez de Morales, *L. Fernández*, T. E. Pérez, M. A. Piñar: "Bivariate orthogonal polynomials in the Lyskova class", 9 pages
submitted: 12/11/07; accepted: 1/8/08
Department of Applied Mathematics, University campus de La Cartuja, University of Granada, 18071 Granada, Spain. lidiafr@ugr.es

2. *A.I. Aptekarev*, V.A. Kalyagin, V.G. Lysov, D.N. Toulyakov: "Equilibrium of vector potentials and uniformization of the algebraic curves of genus 0*", 23 pages
submitted: 10/4/08; accepted: 5/7/08
Keldysh Institute of Applied Mathematics, Russian Academy of Sciences, Moscow, Russia. aptekaa@keldysh.ru

3. M. Assal: "Pseudo-Differential operators associated with Laguerre hypergroups", 5 pages
submitted: 1/10/07; accepted: 25/3/08
Department of Mathematics, Faculty of Sciences of Bizerte, 7021 Tunisia. Miloud.Assal@fst.rnu.tn

4. *Y. Ben Cheikh*, I. Lamiri, A. Ouni: "On Askey-scheme and d-orthogonality. I: A characterization theorem", 12 pages
submitted: 30/10/07; accepted: 25/3/08
Faculté des Sciences de Monastir, Département de Mathématiques, 5019 Monastir, Tunisia. youssef.bencheikh@planet.tn

5. *E. Berriochoa*, A. Cachafeiro: "Characterizing curves satisfying the Gauss-Christoffel theorem", 8 pages
submitted: 14/9/07; accepted: 25/1/08
Departamento de Matemática Aplicada I, Facultad de Ciencias Ourense, Universidad de Vigo, 32004 Ourense, Spain. esnaola@uvigo.es

6. *A. Branquinho*, M. N. Rebocho: "Distributional equation for Laguerre-Hahn functionals on the unit circle", 14 pages
submitted: 31/10/07; accepted: 24/6/08
CMUC, Department of Mathematics, University of Beira Interior, 6201-001 Covilhã, Portugal. ajplb@mat.uc.pt

7. *A. Branquinho*, U. Fidalgo, A. Foulquié Moreno: "Riemann-Hilbert problem associated with Angelesco systems", 14 pages
submitted: 4/11/07; accepted: 9/7/08
CMUC, Department of Mathematics, University of Beira Interior, 6201-001 Covilhã, Portugal. ajplb@mat.uc.pt

8. J. S. Christiansen, *B. Simon*, M. Zinchenko: "Finite gap Jacobi matrices: an announcement", 18 pages
submitted: 23/10/07; accepted: 2/2/08
Mathematics 253-37, California Institute of Technology, Pasadena, CA 91125. bsimon@caltech.edu

9. Ó. Ciaurri, *J.L. Varona*: "The surprising almost everywhere convergence of Fourier-Neumann series", 5 pages
submitted: 23/6/07; accepted: 10/1/08
Dpto. de Matemáticas y Computación, Univ. de La Rioja, 26004 Logroño, Spain. jvarona@unirioja.es

10. M.W. Coffey: "Summation properties of the η_j and Li constants", 16 pages
submitted: 7/10/07; accepted: 7/3/08
Department of Physics, Colorado School of Mines, Golden, CO 80401, USA. mcoffey@mines.edu

11. M.W. Coffey, *S.J. Johnston*: "Some results involving series representations of hypergeometric functions", 8 pages
submitted: 30/10/07; accepted: 7/3/08
School of Mathematics, University of the Witwatersrand, Private Bag 3, Wits 2050, Johannesburg, South Africa. sarahjane.johnston@wits.ac.za

12. J. Coussement, *C. Smet*: "Irrationality proof of certain Lambert series using little q-Jacobi polynomials", 14 pages
submitted: 1/2/08; accepted: 7/5/08

Department of Mathematics, Katholieke Universiteit Leuven, Celestijnenlaan 200B, 3001 Leuven, Belgium. christophe.smet@wis.kuleuven.be

13. C. Diaz Mendoza, R. Orive, *H. Pijeira Cabrera*: "Zeros and logarithmic asymptotics of Sobolev orthogonal polynomials for exponential weights", 11 pages
submitted: 14/11/07; accepted: 21/5/08
Departamento de Matemáticas, Universidad Carlos III de Madrid, Avenida de la Universidad 30, 28911, Leganés, Spain. hpijeira@math.uc3m.es

14. *D. K. Dimitrov*, F. R. Rafaeli: "Monotonicity of zeros of Laguerre polynomials", 6 pages
submitted: 31/10/07; accepted: 24/3/08
Departamento de Ciências de Computação e Estatistica, IBILCE, Universidade Estadual Paulista, 15054-000 Sao Jose do Rio Preto, SP Brazil; dimitrov@ibilce.unesp.br

15. *D. K. Dimitrov*, Y. Ben Cheikh: "Laguerre polynomials as Jensen polynomials of Laguerre-Pólya entire functions", 6 pages
submitted: 31/10/07; accepted: 24/3/08
Departamento de Ciências de Computação e Estatistica, IBILCE, Universidade Estadual Paulista, 15054-000 Sao Jose do Rio Preto, SP Brazil; dimitrov@ibilce.unesp.br

16. D. Dominici: "Asymptotic analysis of Bell polynomials by the ray method", 13 pages
submitted: 3/9/07; accepted: 3/3/08
Department of Mathematics, State University of New-York at New Paltz, 1 Hawk Dr, New Paltz NY 12561-2443, USA. dominicd@newpaltz.edu

17. *K. Driver*, K. Jordaan: "Zeros of linear combinations of Laguerre polynomials from different sequences", 6 pages
submitted: 27/10/07; accepted: 21/1/08
P D Hahn Building, University of Cape Town, Rondebosch 7701, South Africa. Kathy.Driver@up.ac.za

18. J. Ellegaard Andersen, *C. Berg*: "Quantum Hilbert matrices and orthogonal polynomials", 13 pages
submitted: 25/9/07; accepted: 3/7/08
Department of Mathematics, University of Copenhagen, Universitetsparken 5, DK 2100, Copenhagen Ø, Denmark. berg@math.ku.dk

19. L. Garza, *F. Marcellán*: "Szegő transformations and rational spectral transformations for associated polynomials", 15 pages
submitted: 25/1/08; accepted: 25/3/08
Departamento de Matemáticas, Universidad Carlos III de Madrid, Avenida de la Universidad 30, 28911, Leganés, Spain. pacomarc@ing.uc3m.es

20. R. Griffiths: "Stochastic processes with orthogonal polynomials eigenfunctions", 10 pages
submitted: 25/10/07; accepted: 15/7/08
Department of Statistics, University of Oxford, 1 South Parks rd, Oxford, OX1 3TG, United Kingdom. griff@stats.ox.ac.uk

21. J.R. Illán Gonzales: "Gaussian rational quadrature formulas for ill-scaled integrands", 6 pages
submitted: 21/12/07; accepted: 7/1/08
Departamento de Matemática Aplicada I, Universidad de Vigo, ETSI de Telecomunicación, Campus Lagoas-Marcosende s/n, 36310 Vigo, Spain. jillan@uvigo.es

22. M. E. H. Ismail, *P. Simeonov*: "q-Difference operators for orthogonal polynomials", 24 pages
submitted: 10/9/07; accepted: 25/2/08
Department of Mathematics, University of Houston-Downtown, Houston, TX 77002, USA. SimeonovP@uhd.edu

23. *K. Jordaan*, F. Tookos: "Convexity of the zeros of some orthogonal polynomials and related functions", 10 pages
submitted: 29/10/07; accepted: 20/6/08
Department of Mathematics and Applied Mathematics, University of Pretoria, 0002, Pretoria, South Africa. kjordaan@up.ac.za

24. H. Joulak, *B. Beckermann*: "On Gautschi's conjecture for generalized Gauss-Radau and Gaus-Lobatto formulae", 11 pages
submitted: 23/3/08; accepted: 6/5/08
Laboratoire Paul Painlevé, UMR CNRS 8524, UFR de Mathématiques, Université des Sciences et Technologies de Lille, 59655 Villeneuve d'Ascq cedex, France. bbecker@math.univ-lille1.fr

25. *A.B.J. Kuilaars*, P.M.J. Tibboel, "The asymptotic behaviour of recurrence coefficients for orthogonal polynomials with varying exponential weights", 15 pages
submitted: 24/9/07; accepted: 22/2/08
Department of Mathematics, Katholieke Universiteit Leuven, Celestijnenlaan 200B, 3001 Leuven, Belgium. arno.kuijlaars@wis.kuleuven.be

26. R. Lasser: "Various amenability properties of the L^1-algebra of polynomial hypergroups and applications", 12 pages
submitted: 18/3/08; accepted: 24/8/08
Munich University of Technology, Centre of Mathematics, 85748 Garching, Germany. lasser@gsf.de

27. A. Magnus: "Rational interpolation to solutions of Riccati difference equations on elliptic lattices", 17 pages
submitted: 7/11/07; accepted: 24/4/08
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28. G.V. Milovanović, M.M. Spalević, *M.S. Pranić*: "Error estimates for Gaussian quadratures of analytic functions", 11 pages
submitted: 17/10/07; accepted: 18/8/08
Department of Mathematics and Informatics, University of Banja Luka, Faculty of Science, M. Stojanovića 2, 51000 Banja Luka, Bosnia and Herzegovina. pranic77m@yahoo.com

29. H. L. Pedersen: "Logarithmic order and type of indeterminate moment problems II", 10 pages
submitted: 30/10/07; accepted: 20/2/08
Department of Basic Sciences and Environment, Mathematics and Computer Science, Faculty of Life Sciences, University of Copenhagen, 40, Thorvaldsensvej, DK-1871 Frederiksberg C, Denmark. henrikp@dina.kvl.dk

30. W. Pleśniak: "Multivariate Jackson inequality", 9 pages
submitted: 19/12/07; accepted: 7/1/08
Jagiellonian University, Institute of Mathematics, Łojasiewicza 6, 30-348 Kraków, Poland. Wieslaw.Plesniak@im.uj.edu.pl

31. T. Schmelzer, *H. Stahl*: "An extension of the '1/9'-problem", 22 pages
submitted: 7/4/08; accepted: 8/7/08
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32. *S. Tokarzewski*, A. Magnus, J. Gilewicz: "Estimation of a Stieltjes function expanded to Taylor series at complex conjugate points", 8 pages
submitted: 13/2/08; accepted: 13/10/08
Institute of Fundamental Technological Research, Polish Academy of Sciences (IPPT - PAN), ul. Świętokrzyska 21, 00-049 Warszawa, Poland. stokarz@ippt.gov.pl

33. M. Turaev: "Decomposition formulas for Srivastava's hypergeometric function H_A on Saran functions", 6 pages
submitted: 4/12/07; accepted: 27/5/08
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