

PUBLICATIONS
THOMAS M. BROWN

REFEREED PAPERS

- **Brown, T.M.**, Smith, E., Ferguson, H.C., Guhathakurta, P., Kalirai, Kimble, R.A., Renzini, A., Rich, R.M., Sweigart, A.V., & VandenBerg, D.A. 2009, “Deep Optical Photometry of Six Fields in the Andromeda Galaxy,” *ApJS*, in press.
- **Brown, T.M.**, Sahu, K., Zoccali, M., Renzini, A., Ferguson, H.C., Anderson, J., Smith, E., Bond, H.E., Minniti, D., Valenti, J.A., Casertano, S., Livio, M., Panagia, N., VandenBerg, D.A., & Valenti, E. 2008, “The WFC3 Galactic Bulge Treasury Program: A First Look at Resolved Stellar Population Tools,” *AJ*, 137, 3172.
- **Brown, T.M.**, Beaton, R., Chiba, M., Ferguson, H.C., Gilbert, K.M., Guhathakurta, P., Iye, M., Kalirai, J.S., Koch, A., Komiyama, Y., Majewski, S.R., Reitzel, D.B., Renzini, A., Rich, R.M., Smith, E., Sweigart, A.V., & Tanaka, M. 2008, “The Extended Star Formation History of the Andromeda Spheroid at 35 Kpc on the Minor Axis,” *ApJ*, 685, L121.
- Clarkson, W., Sahu, K., Anderson, J., Smith, T.E., **Brown, T.M.**, Rich, R.M., Casertano, S., Bond, H.E., Livio, M., Minniti, D., Panagia, N., Renzini, A., Valenti, J., & Zoccali, M. 2008, “Stellar Proper Motions in the Galactic Bulge from deep HST ACS/WFC Photometry,” *ApJ*, 684, 1110.
- **Brown, T.M.**, Smith, E., Ferguson, H.C., Sweigart, A.V., Kimble, R.A., & Bowers, C.W. 2008, “The Dearth of UV-Bright Stars in M32: Implications for Stellar Evolution Theory,” *ApJ*, 682, 319.
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- **Brown, T.M.**, Smith, E., Ferguson, H.C., Guhathakurta, P., Kalirai, J.S., Rich, R.M., Renzini, A., Sweigart, A.V., Reitzel, D., Gilbert, K.M., & Geha, M. 2007, “The Extended Star Formation History of the Andromeda Spheroid at Twenty One Kiloparsecs on the Minor Axis,” *ApJ*, 658, L95.
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 - **Brown, T.M.**, Smith, E., Guhathakurta, P., Rich, R.M., Ferguson, H.C., Renzini, A., Sweigart, A.V., & Kimble, R.A. 2006, “Deep Photometry of Andromeda Reveals Striking Similarities in the Tidal Stream and Spheroid Populations,” *ApJ*, 636, L89.
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 - Lanz, T., **Brown, T.M.**, Sweigart, A.V., Hubeny, I., & Landsman, W.B. 2004, “Flash Mixing on the White Dwarf Cooling Curve: FUSE Observations of three He-rich sdB Stars,” *ApJ*, 602, 342.
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- Williams, R.E., et al. 2000, “The Hubble Deep Field–South: Formulation of the Observing Campaign,” *AJ*, 120, 2735.
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- **Brown, T.M.**, Bowers, C.W., Kimble, R.A., & Ferguson, H.C. 2000, “Far-Ultraviolet Emission from Elliptical Galaxies at $z = 0.55$,” *ApJ*, 529, L89.

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- **Brown, T.**, Cordova, F., Ciardullo, R., Thompson, R., & Bond, H. 1994, “Einstein

Observations of Ultrasoft X-ray Sources in the Magellanic Clouds,” *ApJ*, 422, 118.

CONFERENCE SPEAKING

- “The History of Star Formation in Galaxies,” in *Beyond JWST: The Next Steps in UV-Optical-NIR Space Astronomy*, Baltimore, USA, March 2009. **Invited.**
- “The Star Formation Histories of the M31 and M33 Spheroids,” in *Galaxy Evolution: Emerging Insights and Future Challenges*, Austin, USA, November 2008. **Invited.**
- “Star Formation Histories in the Andromeda Galaxy,” in *The 211th Meeting of the American Astronomical Society*, Austin, USA, January 2008. **Invited.**
- “Star Formation Histories in Andromeda,” in *Galaxies and Structures Through Cosmic Time*, Venice, Italy, March 2006. **Invited.**
- “Star Formation Histories in Andromeda,” in *Stellar Populations, A Rossetta Stone for Galaxy Formation*, Ringberg Castle, Germany, July 2005. **Invited.**
- “Resolved Stellar Populations in Andromeda,” in *Resolved Stellar Populations*, Cancun, Mexico, April 2005. **Invited.**
- “Star Formation Histories in Andromeda,” in *Structure and Evolution of the Milky Way and Its Surroundings*, Ringberg Castle, Germany, December 2004. **Invited.**
- “Star Formation Histories in the Local Group,” in *Wide Field Imaging from Space*, Berkeley, USA, May 2004. Contributed.
- “The UV Upturn: From M32 to Distant Clusters,” in *Extreme Horizontal Branch Stars and Related Objects*, Staffordshire, UK, June 2003. Contributed.
- “The Star Formation History of the Andromeda Halo,” in *The Local Group as an Astrophysical Laboratory*, Baltimore, USA, May 2003. **Invited.**
- “Mapping the Star Formation History of the Local Group with NHST,” in *The 202nd Meeting of the American Astronomical Society*, Nashville, USA, May 2003. **Invited.**
- “Measurements of the UV Upturn in Local and Intermediate Redshift Ellipticals,” in *Spectrophotometric Dating of Stars and Galaxies*, Annapolis, USA, April 1999. **Invited.**
- “Color–Luminosity Relations for the Resolved Hot Stellar Populations in the Centers of M31 and M32,” in *IAU 192: The Stellar Content of Local Group Galaxies*, Cape Town, South Africa, September 1998. Contributed.
- “A Far Ultraviolet Analysis of the Stellar Populations in Elliptical and S0 Galaxies,” in *The 189th Meeting of the American Astronomical Society*, Toronto, Canada, January 1997. Contributed.
- “A Far Ultraviolet Analysis of the Stellar Populations in Six Elliptical and S0 Galaxies,” in *The Second Stromlo Symposium – The Nature of Elliptical Galaxies*, Canberra, Australia, August 1996. Contributed.

RECENT SEMINARS AND COLLOQUIA

- “Star Formation Histories in the Andromeda Galaxy.” University of Massachusetts Amherst, March 2009.
- “Star Formation Histories in the Andromeda Galaxy.” University of Toledo, January 2009.
- “The Formation History of the Andromeda Galaxy.” University of Washington, March 2007.
- “The Formation History of the Andromeda Galaxy.” STScI, February 2007.
- “The Formation History of the Andromeda Galaxy.” Yale, January 2007.
- “The Formation History of the Andromeda Galaxy.” University of Virginia, October 2006.
- “Star Formation Histories in Andromeda.” NASA/GSFC, February 2006.
- “Star Formation Histories in Andromeda.” University of California Santa Cruz, October 2005.
- “Star Formation Histories in Andromeda.” The Johns Hopkins University, March 2005.
- “The Age of the Andromeda Halo.” Michigan State University, October 2004.
- “The Age of the Andromeda Halo.” University of Pennsylvania, October 2004.
- “The Star Formation History in the Andromeda Halo.” The Pennsylvania State University, April 2004.
- “The Star Formation History in the Andromeda Halo.” NASA/GSFC, February 2004.
- “Using Hot Stars to Trace the Evolution of Old Galaxies.” NASA/GSFC, October 2002.

TECHNICAL PAPERS

- Brown, T.M. 2008, “WFC3 Instrument Science Report 2008-49: WFC3 TV3 Testing: Red Leak Checks for the UV Filters.”
- Brown, T.M. 2008, “WFC3 Instrument Science Report 2008-48: WFC3 TV3 Testing: System Throughput on the UVIS Build 1’ Detector.”
- Brown, T.M. 2008, “WFC3 Instrument Science Report 2008-11: WFC3 ETC Update.”
- Brown, T.M., Hartig, G., & Baggett, S. 2008, “WFC3 Instrument Science Report 2008-10: WFC3 TV3 Testing – UVIS Window Contamination.”
- Brown, T.M. 2008, “WFC3 Instrument Science Report 2008-09: WFC3 TV3 Testing – IR Channel Throughput.”
- Brown, T.M. 2008, “WFC3 Instrument Science Report 2008-08: WFC3 TV3 Testing – UVIS Filtered Throughput.”
- Brown, T.M. 2008, “WFC3 Instrument Science Report 2008-07: WFC3 TV3 Testing

- UVIS Channel Glints.”
- Brown, T.M. 2008, “WFC3 Instrument Science Report 2008-06: WFC3 TV3 Testing – IR Channel Baffle Scatter.”
- Brown, T.M. 2008, “WFC3 Instrument Science Report 2008-05: WFC3 TV3 Testing – IR Channel Blue Leaks.”
- Brown, T.M. 2007, “WFC3 Instrument Science Report 2007-24: UVIS Filtered Throughput.”
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- Brown, T.M. 2007, “WFC3 Instrument Science Report 2007-21: UVIS Channel Glint.”
- Brown, T.M. 2007, “WFC3 Instrument Science Report 2007-20: System Throughput on the UVIS Build 2 Detector.”
- Brown, T.M. 2007, “WFC3 Instrument Science Report 2007-18: Image Stability.”
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- Brown, T.M. 2007, “WFC3 Instrument Science Report 2007-06: WFC3 SYNPHOT Data.”
- S. Baggett, Brown, T.M., Hartig, G., Robberto, M., Boucarut, R., & Telfer, R. 2007, “WFC3 Instrument Science Report 2007-03: Performance of the WFC3 Replacement IR Grisms.”
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- Goudfrooij, P. Maíz-Appelániz, J., Brown, T., & Kimble, R. 2006, “STIS Instrument Science Report 2006-01: Charge Transfer Efficiency of the STIS CCD.”
- Brown, T.M. 2005, “WFC3 Instrument Science Report 2005-22: Results of WFC3 Thermal Vacuum Testing – IR Channel Ghosts and Baffle Scatter.”
- Brown, T.M. 2005, “WFC3 Instrument Science Report 2005-18: Results of WFC3 Thermal Vacuum Testing – Repeatability of the Channel Select Mechanism.”
- Bond, H., & Brown, T.M. 2005, “WFC3 Instrument Science Report 2005-16:

Scientific Impacts of UVIS Channel Filter Ghosts.”

- Brown, T.M., Reid, I.N., & Figer, D.F. 2005, “WFC3 Instrument Science Report 2005-12: Results of WFC3 Thermal Vacuum Testing – IR Channel Throughput.”
- Brown, T.M. 2005, “WFC3 Instrument Science Report 2005-11: Results of WFC3 Thermal Vacuum Testing – Image Stability.”
- Brown, T.M., & Reid, I.N. 2005, “WFC3 Instrument Science Report 2005-02: Results of WFC3 Thermal Vacuum Testing – UVIS Channel Throughput.”
- Brown, T.M. 2005, “WFC3 Instrument Science Report 2005-01: Results of WFC3 Thermal Vacuum Testing – UVIS Channel Ghosts.”
- Brown, T.M., & Lupie, O. 2005, 2004, “WFC3 Instrument Science Report 2004-12: Ambient Testing of UVIS Filter Ghosts.”
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- Brown, T.M., et al. 2002, “HST Data Handbook for STIS.”
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- Brown, T.M. 2002, “STIS Technical Instrument Report 2002-03: Revised Procedures for Creating MAMA P-Flats.”
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CONFERENCE PROCEEDINGS

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 - Dixon, W.V., Brown, T.M., Howk, J.C., & Landsman, W.B. 2006, “Does the Line of Sight to M5 Intersect a Highly-Ionized High-Velocity Cloud?” in *Astrophysics in the Far Ultraviolet: Five Years of Discovery with FUSE*, ed. G. Sonneborn, H. Moos, & B.-G. Anderson (San Francisco: ASP), P218.
 - Brown, T.M. 2006, “The Star Formation History of the Andromeda Halo,” in *The Local Group as an Astrophysical Laboratory*, ed. M. Livio & T.M. Brown (Cambridge: Cambridge University Press), 111.
 - Brown, T.M., Smith, E., Guhathakurta, P., Rich, R.M., Ferguson, H.C., Renzini, A., Sweigart, A.V., & Kimble, R.A. 2005, “The Violent History of Andromeda,” *BAAS*, 37, 1101.
 - Brown, T.M. 2005, “Star Formation Histories in the Local Group,” *NewAR*, 49, 474.
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 - Teplitz, H.I., Brown, T.M., Conselice, C., de Mello, D.F., Dickinson, M.E., Ferguson, H.C., Gardner, J.P., Giavalisco, M., Menanteau, F. 2005, “Far-Ultraviolet imaging of the Hubble Deep Field North,” in *Starbursts: From 30 Doradus to Lyman Break*

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