

COLIN SLATER

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RESEARCH FOCUS

Local Group satellites, dwarf galaxy quenching. Stellar halos and their origins. Large astronomical surveys.

EDUCATION

Ph.D., Astronomy, June 2015

University of Michigan, Ann Arbor, MI.

Dissertation: Satellite Quenching and the Lifecycle of Dwarf Galaxies, Advisor: Eric Bell.

B.S., Astronomy, June 2009

Case Western Reserve University, Cleveland, OH.

POSITIONS

September 2015 — Present

Postdoctoral Researcher - University of Washington

LSST Data Management Subsystem Science Team Staff

August 2009 — August 2015

Ph.D. Student, University of Michigan.

INVITED AND CONTRIBUTED TALKS

Contributed Talk, Hotwiring the Transient Universe V, Villanova University, October 2016.

Invited Talk, LSST Project and Community Workshop 2016, Tucson AZ.

Invited Talk, Stellar Streams in the Local Universe, Ringberg Castle, July 2015.

Contributed Talk, Local Group Astrostatistics, University of Michigan, June 2015.

Invited talk, University of California, Berkeley, Cosmology Seminar, November 2014.

Invited talk, Ohio State University CCAPP Seminar, October 2014.

Contributed Talk, Santa Cruz Galaxy Formation Workshop, August 2014.

Contributed Talk, Pan-STARRS Workshop, Durham, UK., August 2012.

Contributed Talk, Galactic Archaeology Surveys conference, Sydney, AU., July 2012.

ACCEPTED OBSERVING PROPOSALS AS PI

“Deep follow-up of two new distant satellites of Andromeda”, Gemini 2012B, 8 hours

“Quantifying substructure in the stellar halos of spiral galaxies”, Magellan 2012B, 1 night.

PROFESSIONAL SERVICE

Local Organizing Committee, “Local Group Astrostatistics” conference, University of Michigan, June 2015.

Referee for ApJ, MNRAS, A&A, PASJ.
Hubble Space Telescope Panel reviewer for Cycle 25.

TEACHING EXPERIENCE

Developed and implemented data-based research “challenges” for intro courses, Fall 2013–Spring 2014.
Conducted discussion sections/labs for Astro 101 & 102, Fall 2010–Spring 2011.

FIRST-AUTHOR PUBLICATIONS

9. Colin T. Slater, David L. Nidever, Jeffrey A. Munn, Eric F. Bell, Steven R. Majewski, 2016, ApJ 832, 206.
“*The Stellar Density Profile of the Distant Galactic Halo*”
8. Colin T. Slater, Eric F. Bell, Nicolas F. Martin, Erik J. Tollerud, Nhung Ho, 2015, ApJ 806, 230.
“*A Deep Study of the Dwarf Satellites Andromeda XXVIII & XXIX*”
7. Colin T. Slater and Eric F. Bell, 2014, ApJ 792, 141.
“*The Mass Dependence of Dwarf Satellite Galaxy Quenching*”
6. Colin T. Slater, Eric F. Bell, Edward F. Schlafly, Eric Morganson, Nicolas F. Martin, Hans-Walter Rix, Jorge Pearrubia, Edouard J. Bernard, Annette M. N. Ferguson, David Martinez-Delgado, Rosemary F. G. Wyse, William S. Burgett, Kenneth C. Chambers, Peter W. Draper, Klaus W. Hodapp, Nicholas Kaiser, Eugene A. Magnier, Nigel Metcalfe, Paul A. Price, John L. Tonry, Richard J. Wainscoat, Christopher Waters, 2014, ApJ 791, 9.
“*The Complex Structure of Stars in the Outer Galactic Disk as revealed by Pan-STARRS1*”
5. Colin T. Slater, Eric F. Bell, 2013, ApJ 773, 17.
“*Confronting Models of Dwarf Galaxy Quenching with Observations of the Local Group*”
4. C. T. Slater, E. F. Bell, E. F. Schlafly, M. Juric, N. F. Martin, H.-W. Rix, E. J. Bernard, W. S. Burgett, K. C. Chambers, D. P. Finkbeiner, B. Goldman, N. Kaiser, E. A. Magnier, E. P. Morganson, P. A. Price, J. L. Tonry, 2013, ApJ, 762, 6.
“*A Pan-STARRS1 View of the Bifurcated Sagittarius Stream*”
3. Colin T. Slater, Eric F. Bell, Nicolas F. Martin, 2011, ApJL, 742, 14.
“*Andromeda XXVIII: A Dwarf Galaxy More Than 350 kpc from Andromeda*”
2. C.T. Slater, M. S. Oey, A. Li, J.-Ph. Bernard, E. Churchwell, K. D. Gordon, R. Indebetouw, B. Lawton, M. Meixner, D. Paradis and W.T. Reach, 2011, ApJ, 732, 92.
“*Dust Emission From Evolved and Unevolved H II Regions in the Large Magellanic Cloud*”
1. Slater, C., Harding, P., Mihos, C. 2009, PASP, 121, 1267.
“*Removing Internal Reflections from Deep Imaging Datasets*”

NON-REFEREED TECHNICAL REPORTS

2. C. T. Slater, R. L. Jones, E. Bellm, and M. Jurić, LSST LDM-523, <http://ls.st/ldm-523>
“*Impact of a Heterogeneous Focal Plane on LSST Image Differencing*”
1. Colin Slater, Mario Jurić, Željko Ivezić and Lynne Jones, LSST DMTN-006, <http://dmtn-006.lsst.io>
“*False Positive Rates in the LSST Image Differencing Pipeline*”

n-TH AUTHOR PUBLICATIONS

16. Jones, R. Lynne, **Slater, Colin T.**, Moeyens, Joachim, Allen, Lori, Axelrod, Tim, Cook, Kem, Ivezić, Željko, Jurić, Mario, Myers, Jonathan, Petry, Catherine E. 2017, *Icarus* accepted.
“*The Large Synoptic Survey Telescope as a Near-Earth Object Discovery Machine*”
15. Adam Smercina, Eric F. Bell, **Colin T. Slater**, Paul A. Price, Jeremy Bailin, and Antonela Monachesi, 2017, *ApJL* 843, L6.
“*D1005+68: A New Faint Dwarf Galaxy in the M81 Group*”
14. Andreia Carrillo, Eric F. Bell, Jeremy Bailin, Antonela Monachesi, Roelof S. de Jong, Benjamin Harmsen and **Colin T. Slater**, 2017, *MNRAS* 465, 5026.
“*Characterizing dw1335-29, a recently discovered dwarf satellite of M83*”
13. J. Christopher Mihos, Paul Harding, John J. Feldmeier, Craig Rudick, Steven Janowiecki, Heather Morrison, **Colin Slater**, and Aaron Watkins, 2017, *ApJ* 834, 16.
“*The Burrell Schmidt Deep Virgo Survey: Tidal Debris, Galaxy Halos, and Diffuse Intracluster Light in the Virgo Cluster*”
12. Eric Morganson, Blair Conn, Hans-Walter Rix, Eric F. Bell, William S. Burgett, Kenneth Chambers, Andrew Dolphin, Peter W. Draper, Heather Flewelling, Klaus Hodapp, Nick Kaiser, Eugene A. Magnier, Nicolas F. Martin, David Martinez-Delgado, Nigel Metcalfe, Edward F. Schlafly, **Colin T. Slater**, Richard J. Wainscoat, Christopher Z. Waters, 2016, *ApJ* 825, 140.
“*Mapping the Monoceros Ring in 3D with Pan-STARRS1*”
11. Facundo A. Gomez, Simon D. M. White, Federico Marinacci, **Colin T. Slater**, Robert J. J. Grand, Volker Springel and Rudiger Pakmor, 2016, *MNRAS* 456, 2779.
“*A fully cosmological model of a Monoceros-like ring*”
10. Branimir Sesar, Adrian M. Price-Whelan, Judith G. Cohen, Hans-Walter Rix, Sarah Pearson, Kathryn V. Johnston, Edouard J. Bernard, Annette M. N. Ferguson, Nicolas F. Martin, **Colin T. Slater**, Kenneth C. Chambers, Heather Flewelling, Richard J. Wainscoat, and Christopher Waters, 2016, *ApJ* 816, L4.
“*Evidence of Fanning in the Ophiuchus Stream*”
9. Benjamin P. M. Laevens, Nicolas F. Martin, Edouard J. Bernard, Edward F. Schlafly, Branimir Sesar, Hans-Walter Rix, Eric F. Bell, Annette M. N. Ferguson, **Colin T. Slater**, William E. Sweeney, Rosemary F. G. Wyse, Avon P. Huxor, William S. Burgett, Kenneth C. Chambers, Peter W. Draper, Eugene A. Magnier, Nigel Metcalfe, John L. Tonry, Richard J. Wainscoat, Christopher Waters, 2015, *ApJ* 813, 44.
“*Sagittarius II, Draco II and Laevens 3: three new Milky Way satellites discovered in the Pan-STARRS 1 3pi Survey*”
8. Benjamin P. M. Laevens, Nicolas F. Martin, Rodrigo A. Ibata, Hans-Walter Rix, Edouard J. Bernard, Eric F. Bell, Branimir Sesar, Annette M. N. Ferguson, Edward F. Schlafly, **Colin T. Slater**, William S. Burgett, Kenneth C. Chambers, Heather Flewelling, Klaus A. Hodapp, Nicholas Kaiser, Rolf-Peter Kudritzki, Robert H. Lupton, Eugene A. Magnier, Nigel Metcalfe, Jeffrey S. Morgan, Paul A. Price, John L. Tonry, Richard J. Wainscoat, and Christopher Waters, 2015, *ApJ* 802, L18.
“*A New Faint Milky Way Satellite Discovered in the Pan-STARRS1 3 Survey*”
7. Edouard J. Bernard, Annette M. N. Ferguson, Edward F. Schlafly, Mohamad Abbas, Eric F. Bell, Nicolas F. Martin, Hans-Walter Rix, **Colin T. Slater**, Jorge Pearrubia, Rosemary F. G. Wyse, William S. Burgett, Peter W. Draper, Klaus W. Hodapp, Nicholas Kaiser, Rolf-Peter Kudritzki, Eugene A. Magnier, Nigel Metcalfe, Jeffrey S. Morgan, Paul A. Price, John L. Tonry, Richard J. Wainscoat, Christopher Waters, 2014, *MNRAS* 443, L84.
“*Serendipitous Discovery of a Thin Stellar Stream near the Galactic Bulge in the Pan-STARRS1 3Pi Survey*”
6. Edouard J. Bernard, Annette M. N. Ferguson, Edward F. Schlafly, Imants Platais, Eric F. Bell, Nicolas F. Martin, Hans-Walter Rix, **Colin T. Slater**, William S. Burgett, Kenneth C. Chambers, Peter W. Draper, Klaus W. Hodapp, Nicholas Kaiser, Rolf-Peter Kudritzki, Eugene A. Magnier, Nigel Metcalfe, John L. Tonry, Richard J. Wainscoat, Christopher Waters, 2014, *MNRAS* 442, 2999.
“*Galactic Globular and Open Cluster Fiducial Sequences in the Pan-STARRS1 Photometric System*”

5. Benjamin P. M. Laevens, Nicolas F. Martin, Branimir Sesar, Edouard J. Bernard, Hans-Walter Rix, **Colin T. Slater**, Eric F. Bell, Annette M. N. Ferguson, Edward F. Schlafly, William S. Burgett, Kenneth C. Chambers, Larry Denneau, Peter W. Draper, Nicholas Kaiser, Rolf-Peter Kudritzki, Eugene A. Magnier, Nigel Metcalfe, Jeffrey S. Morgan, Paul A. Price, William E. Sweeney, John L. Tonry, Richard J. Wainscoat, Christopher Waters, 2014, ApJL 786, 3.
“*A new distant Milky Way globular cluster in the Pan-STARRS1 3π survey*”
4. David L. Nidever, Trisha Ashley, **Colin T. Slater**, Juergen Ott, Megan Johnson, Eric F. Bell, Snezana Stanimirovic, Mary Putman, Steven R. Majewski, Caroline E. Simpson, Eva Juette, Tom A. Oosterloo, W. Butler Burton, 2013, ApJL 779, L15.
“*Evidence for an Interaction in the Nearest Starbursting Dwarf Irregular Galaxy IC 10*”
3. Martin, Nicolas F.; Schlafly, Edward F.; **Slater, Colin T.**; Bernard, Edouard J.; Rix, Hans-Walter; Bell, Eric F.; Ferguson, Annette M. N.; Finkbeiner, Douglas P.; Laevens, Benjamin P. M.; Burgett, William S.; Chambers, Kenneth C.; Draper, Peter W.; Hodapp, Klaus W.; Kaiser, Nicholas; Kudritzki, Rolf-Peter; Magnier, Eugene A.; Metcalfe, Nigel; Morgan, Jeffrey S.; Price, Paul A.; Tonry, John L.; Wainscoat, Richard J.; Waters, Christopher, 2013, ApJL 779, 15.
“*Perseus I: A distant satellite dwarf galaxy of Andromeda*”
2. Martin, Nicolas F.; **Slater, Colin T.**; Schlafly, Edward F.; Morganson, Eric; Rix, Hans-Walter; Bell, Eric F.; Laevens, Benjamin P. M.; Bernard, Edouard J.; Ferguson, Annette M. N.; Finkbeiner, Douglas P.; Burgett, William S.; Chambers, Kenneth C.; Hodapp, Klaus W.; Kaiser, Nicholas; Kudritzki, Rolf-Peter; Magnier, Eugene A.; Morgan, Jeffrey S.; Price, Paul A.; Tonry, John L.; Wainscoat, Richard J., 2013, ApJ 772, 15.
“*Lacerta I and Cassiopeia III. Two Luminous and Distant Andromeda Satellite Dwarf Galaxies Found in the 3 Pan-STARRS1 Survey*”
1. Bell, Eric F.; **Slater, Colin T.**; Martin, Nicolas F., 2011, ApJL, 742 15.
“*Andromeda XXIX: A New Dwarf Spheroidal Galaxy 200 kpc from Andromeda*”