

## Bibliography of R. Michael Rich

1. A list of all articles by R. Michael Rich may be generated by clicking on this link: rich-papers.

### **2. List of some significant papers within last 7 years**

“Are High Velocity Peaks in the Milky Way Bulge due to the Bar?” Li, Zhao-Yu, Shen, J., Rich, R.M., Kunder, A., Mao, S. 2014, ApJ, 785, L17  
<http://adsabs.harvard.edu/abs/2014ApJ...785L..17L>

“The Blanco DECam Bulge Survey” R. Michael Rich and Will Clarkson, NOAO Newsletter 110, 9. <http://www.noao.edu/noao/noaonews/sep14/pdf/>  
R. Michael Rich PI, NSF supported.

“A chemical confirmation of the faint Bootes II dwarf Spheroidal Galaxy” Koch, A., & Rich, R.M. ApJ in press, <http://arxiv.org/abs/1408.3628>  
High resolution Keck spectrum of [Fe/H]=-3 giant in the Boo II ultrafaint dwarf galaxy

“The Masses of Local Group Dwarf Spheroidal Galaxies: The Death of the Universal Mass Profile” ApJ 783, 7. <http://adsabs.harvard.edu/abs/2014ApJ...783....7C>  
Culmination of 4 years of observations of Andromeda dwarfs at Keck, led by Rich, shows diverse mass profiles not consistent with a single dark matter particle origin. Collins, Michelle L. M.; Chapman, Scott C.; Rich, R. M.; Ibata, Rodrigo A.; Martin, Nicolas F.; Irwin, Michael J.; Bate, Nicholas F.; Lewis, Geraint F.; Peñarrubia, Jorge; Arimoto, Nobuo + 5 authors

*2011-14 Collaborative Research on the composition and kinematics of the bulge population with Christian Johnson, UCLA NSF Postdoctoral Fellow with R. M. Rich; Johnson is now a Clay Fellow at Harvard/Smithsonian Center for Astrophysics*

“Light, Alpha, and Fe-peak Element Abundances in the Galactic Bulge” Johnson, C.I., Rich, R.M, Kobayashi, C., Kunder, A., & Koch, A. 2014 AJ, 148, 671  
<http://adsabs.harvard.edu/abs/2014AJ....148...67J>

“Chemical Abundance Analysis of a Neutron-capture Enhanced Red Giant in the Bulge Plaut Field” Johnson, C.I., McWilliam, A., & Rich, R.M. 2013, ApJ 775, L27  
<http://adsabs.harvard.edu/abs/2013ApJ...775L..27J>

“Metallicity Distribution Functions, Radial Velocities, and Alpha Element Abundances in Three Off-axis Bulge Fields” Johnson, Christian I.; Rich, R. Michael; Kobayashi, Chiaki; Kunder, Andrea; 2013, ApJ, 765, 157  
<http://adsabs.harvard.edu/abs/2013ApJ...765..157J>

“Constraints on the Formation of the Galactic Bulge from Na, Al, and Heavy-element Abundances in Plaut's Field” Johnson, C.I., Rich, R.M., Kobayashi, C., & Fulbright, J.P. 2012, ApJ, 749, 175 <http://adsabs.harvard.edu/abs/2012ApJ...749..175J>

“Alpha Enhancement and the Metallicity Distribution Function of Plaut's Window” Johnson, C.I., Rich, R.M., Fulbright, J.P., Valenti, E., & McWilliam, A. 2011, ApJ, 732, 108 <http://adsabs.harvard.edu/abs/2011ApJ...732..108J>

“The Galactic Bulge” Rich, R.M. in Planets, Stars and Stellar Systems Vol. 5, by Oswalt, Terry D.; Gilmore, Gerard, ISBN 978-94-007-5611-3. Springer Science+Business Media Dordrecht, 2013, p. 271-346 *Major review article on the Galactic bulge* <http://adsabs.harvard.edu/abs/2013pss5.book..271R>

*(2005-2012) M giants in the Galactic bulge with Livia Origlia and the Bologna Group (selection)*

“Detailed Abundances for M Giants in Two Inner Bulge Fields from Infrared Spectroscopy” Rich, R.M., Origlia, L., & Valenti, E. 2012, ApJ 746, 59 <http://adsabs.harvard.edu/abs/2012ApJ...746...59R>

“Spectroscopy Unveils the Complex Nature of Terzan 5” Origlia, L.; Rich, R. M.; Ferraro, F. R.; Lanzoni, B.; Bellazzini, M.; Dalessandro, E.; Mucciarelli, A.; Valenti, E.; Beccari, G. 2011, ApJ, 726, L20 <http://adsabs.harvard.edu/abs/2011ApJ...726L..200>

“The First Detailed Abundances for M Giants in the Inner Bulge from Infrared Spectroscopy” Rich, R.M., Origlia, L., Valenti, E. 2007, ApJ, 665, L119 <http://adsabs.harvard.edu/abs/2007ApJ...665L.119R>

*(2012) Study of Low Surface Brightness Galaxies*

“A Tidally distorted dwarf galaxy near NGC 4449” Rich, R. M.; Collins, M. L. M.; Black, C. M.; Longstaff, F. A.; Koch, A.; Benson, A.; Reitzel, D. B. 2012, Nature, 482, 192 <http://adsabs.harvard.edu/abs/2012Natur.482..192R>

“Threshing in Action: The Tidal Disruption of a Dwarf Galaxy by the Hydra I Cluster” Koch, A., Burkert, A., Rich, R.M., Collins, M.L.M., Black, C.S., Hilker, M., & Benson, A.J. 2012, ApJ 755, L13 <http://adsabs.harvard.edu/abs/2012ApJ...755L..13K>

*(2007-2012) The Bulge Radial Velocity Assay: A survey of 9,600 M giant velocities from the Blanco 4m telescope at Cerro Tololo Inter-American Observatory: R. Michael Rich, PI; NSF supported. Public dataset at: <http://irsa.ipac.caltech.edu/data/BRAVA/> Ph.D. student: Christian Howard UCLA 2008*

“The Bulge Radial Velocity Assay (BRAVA). II. Complete Sample and Data Release”

Kunder, Andrea; Koch, Andreas; Rich, R. Michael; de Propris, Roberto et al. 2012, AJ 143, 57

“A new model for the Milky Way bar” Wang, Yougang; Zhao, Hongsheng; Mao, Shude; Rich, R. M. 2012, MNRAS, 427, 1429  
<http://adsabs.harvard.edu/abs/2012MNRAS.427.1429W>

“Our Milky Way as a Pure-disk Galaxy---A Challenge for Galaxy Formation” Shen, J.; Rich, R. M.; Kormendy, J.; Howard, C. D.; De Propris, R.; Kunder, A. 2010, ApJ, 720, L72 <http://adsabs.harvard.edu/abs/2010ApJ...720L..72S>

“Kinematics at the Edge of the Galactic Bulge: Evidence for Cylindrical Rotation” Howard, C.D., Rich, R.M., Clarkson, W., Mallery, R. et al. 2009, ApJ, 702 L1253  
<http://adsabs.harvard.edu/abs/2009ApJ...702L.153H>

“The Chemical Evolution of the Galactic Bulge” Rich, R.M., Clarkson, W., Cohen, J., Howard, C., McWilliam, A., Johnson, J., Johnson, C., Cunha, K., Smith, V., & Fulbright, J. 2009, Astro 2010, Science White papers No. 246.  
<http://adsabs.harvard.edu/abs/2009astro2010S.246R>

“The Bulge Radial Velocity Assay (BRAVA). I. Sample Selection and a Rotation Curve” Howard, C.D., Rich, R.M., Reitzel, D.B., Koch, A., De Propris, R., Zhao, H-S. 2008, ApJ, 688, 1060 <http://adsabs.harvard.edu/abs/2008ApJ...688.1060H>

“The Bulge Radial Velocity Assay: Techniques and a Rotation Curve” Rich, R.M., Reitzel, D.B., Howard, C.D., Zhao, H.S. 2007, ApJ, 658, L29  
<http://adsabs.harvard.edu/abs/2007ApJ...658L..29R>

“Evidence of a Metal-rich Galactic Bar from the Vertex Deviation of the Velocity Ellipsoid” Soto, M., Rich, & Kuijken, K. 2007, ApJ 665, L31  
<http://adsabs.harvard.edu/abs/2007ApJ...665L..31S>

*The M31 halo from Keck Observatory, collaborating with Postdoc Andreas Koch, now Emmi Noether Fellow, ZAH Heidelberg*

“A Statistical Analysis of the Late-type Stellar Content in the Andromeda Halo” Koch, A., & Rich, R.M. 2010, AJ 139, 2279  
<http://adsabs.harvard.edu/abs/2010AJ...139.2279K>

“Kinematic and Chemical Constraints on the Formation of M31's Inner and Outer Halo” Koch, A., Rich, R.M., Reitzel, D.B., Martin, N. et al. 2008 ApJ 689, 958  
<http://adsabs.harvard.edu/abs/2008ApJ...689..958K>

“The Once and Future Andromeda Stream” Mori, M., & Rich, R.M. 2008, ApJ, 674, L77 <http://adsabs.harvard.edu/abs/2008ApJ...674L..77M>

*(2005-2010) Leadership in the Galaxy Evolution Explorer Project; Science Team Member (Selected papers) with postdoc Samir Salim, Ph.D. student Ryan Mallery*

“The UV-optical colour dependence of galaxy clustering in the local universe” Loh, Y., Rich, R.M., Heinis, S., Scranton, R., Mallery, R. et al. 2010, MNRAS, 407, 55  
<http://adsabs.harvard.edu/abs/2010MNRAS.407...55L>

“Star Formation Signatures in Optically Quiescent Early-type Galaxies” Salim, S., & Rich, R.M. 2010, ApJ 714, L290  
<http://adsabs.harvard.edu/abs/2010ApJ...714L.290S>

“Nitrogen Production in Starburst Galaxies Detected by GALEX” Mallery, Ryan P.; Kewley, Lisa; Rich, R. Michael; Salim, Samir; Charlot, Stephane; Tremonti, Christy; Seibert, Mark; Small, Todd; et al. 2007 ApJS, 173, 482  
<http://adsabs.harvard.edu/abs/2007ApJS..173..482M>

“UV Star Formation Rates in the Local Universe” Samir, S., Rich, R.M., Charlot, S., Brinchmann, J., Johnson, B.D. et al. 2007, ApJS, 173, 267  
<http://adsabs.harvard.edu/abs/2007ApJS..173..267S>

“GALEX Ultraviolet Photometry of Globular Clusters in M31: Three-Year Results and a Catalog” Rey, Soo-Chang, Rich, R.M. et al. 2007, ApJS, 173, 643  
<http://adsabs.harvard.edu/abs/2007ApJS..173..643R>

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<http://adsabs.harvard.edu/abs/2005ApJ...619L.107R>