

## Publications<sup>\*</sup>

Amalia K. Hicks

- “A  $z=0.9$  Supercluster of X-Ray Luminous, Optically-Selected, Massive Galaxy Clusters”, Gilbank, D. G., Yee, H. K. C., Ellingson, E., **Hicks, A. K.**, Gladders, M. D., Barrientos, L. F., and Keeney, B., 2008, *Astrophysical Journal Letters*, accepted
- “*Chandra* X-ray Observations of the  $0.6 < z < 1.1$  Red-Sequence Cluster Survey Sample”, **Hicks, A. K.**, Ellingson, E., Bautz, M., Cain, B., Garmire, G., Gilbank, D., Gladders, M., Hoekstra, H., & Yee, H. K. C. 2008, *Astrophysical Journal*, 680, 1022
- “Evidence for Line-of-sight Structure in a Comparison of X-ray and Optical Observations of the High-redshift Cluster RCS043938-2904.7”, Cain, B., Gilbank, D., Bautz, M. W., **Hicks, A. K.**, Yee, H. K., Gladders, M., Ellingson, E., Barrientos, L. F., & Garmire, G.P., 2008, *Astrophysical Journal*, 679, 293
- “A Multiwavelength Analysis of the Strong Lensing Cluster RCS0224334-0002.5 at  $z=0.778$ ”, **Hicks, A. K.**, Ellingson, E., Hoekstra, H., Gladders, M., Yee, H. K. C., Bautz, M., Gilbank, D., Webb, T., & Ivison, R. 2007, *Astrophysical Journal*, 671, 1446
- “*Chandra* Observation of the Interaction of the Radio Source and Cooling Core in Abell 2063”, Kanov, K. N., Sarazin, C L. & **Hicks, A. K.** 2006, *Astrophysical Journal*, 653, 184
- “Multiwavelength Mass Comparisons of the  $z \sim 0.3$  CNOC Cluster Sample”, **Hicks, A. K.**, Ellingson, E., Hoekstra, H., & Yee, H. K. C. 2006, *Astrophysical Journal*, 652, 232
- “Star Formation Rates in Cooling Flow Clusters: A UV Pilot Study with Archival XMM Newton Optical Monitor Data”, **Hicks, A. K.**, & Mushotzky, R. 2005, *Astrophysical Journal Letters*, 635, L9
- “Multiwavelength Studies of Cluster Evolution from  $z \sim 1$  to the Present”, **Hicks, A. K.** 2005, Doctoral Dissertation, University of Colorado-Boulder
- \* “*Chandra* Observations of  $z \sim 1$  Clusters from the Red Sequence Cluster Survey”, **Hicks, A. K.** 2004, *Bulletin American Astronomical Society*, 36
- “*Chandra* X-ray Observations of Newly Discovered,  $z \sim 1$  Clusters from the Red Sequence Cluster Survey”, **Hicks, A. K.**, Ellingson, E., Bautz, M. W., Yee, H. K. C., Gladders, M., & Garmire, G. 2004, *Advances in Space Research*, 36, 706
- \* “Unresolved X-ray Sources in Intermediate Redshift Cluster Fields”, Fawcett, S., Ellingson, E., & **Hicks, A. K.** 2004, *Bulletin American Astronomical Society*, 36

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\* Not refereed

- \* “Star Formation Rates in Cooling Flow Clusters”, Mushotzky, R., & **Hicks, A. K.** 2004, *Bulletin American Astronomical Society*, 36
- \* “First X-ray Results from the Optically Selected Red Sequence Cluster Survey (RCS) at  $z \sim 1$ ”, **Hicks, A. K.**, Ellingson, E., Yee, H. K. C., Jeltema, T. E., Bautz, M. W., Gladders, M., & Garmire, G. 2004, in *Multiwavelength Cosmology*, ed. M. Plionis, Kluwer Academic Publishers
- “Linear Gas Dynamics in the Expanding Universe”, Gnedin, N. Y., Baker, E. J., Bethell, T. J., Drosback, M. M., Harford, A. G., **Hicks, A. K.**, Jensen, A. G., Keeney, B. A., Kelso, C. M., Neyrinck, M. C., Pollock, S. E. & van Vliet, T. P. 2003, *Astrophysical Journal*, 583, 525
- \* “Mass Distribution in Clusters of Galaxies: X-Ray and Lensing Comparisons of 3 Intermediate-Redshift CNOC Clusters”, **Hicks, A. K.** 2002, *Bulletin American Astronomical Society*, 34, 706
- “*Chandra* X-Ray Spectroscopy and Imaging of the Galaxy Cluster PKS 0745-191”, **Hicks, A. K.**, Wise, M. W., Houck, J. C., & Canizares, C. R. 2002, *Astrophysical Journal*, 580, 763
- “*Chandra* X-Ray Spectroscopy and Imaging of the Galaxy Cluster PKS 0745-191”, **Hicks, A. K.** 2001, Masters Thesis, Massachusetts Institute of Technology (MIT)
- “Effects of Departures from Ionization Equilibrium on Cooling Flow X-Ray Spectra”, **Hicks, A. K.**, & Canizares, C. R. 2001, *Astrophysical Journal*, 556, 468
- \* “A Comparison of X-ray and Gravitational Lensing Mass Estimates Using *Chandra* Observations of PKS 0745-191”, **Hicks, A. K.** & Canizares, C. R. 2000, *Bulletin American Astronomical Society*, 32, 1199
- \* “Effects of Departures from Ionization Equilibrium on Cooling Flow X-ray Spectra”, **Hicks, A. K.**, & Canizares, C. R. 1999, in *Large Scale Structure in the X-Ray Universe*, eds. M. Plionis, I Georgantopoulos, S. Basilakos, E. Kontizas, Kluwer Academic Publishers
- “The Effects of High Temperature Annealing on the Surface Reconstruction of Nickel Oxide (1.0)”, Schofield, M. A., **Hicks, A. K.**, & Gajdardziska-Josifovska, M. 1998, *Electron Microscopy 1998, Proc. 14<sup>th</sup> International Congress on Electron Microscopy*, Eds. H.A. Calderon Benavides and M.J. Yacaman, Institute of Physics Publishing, 3, 713

## Selected Current Projects

- “Radio and X-ray Interactions in the Merging Cluster Abell 115”, **Hicks, A. K.**, Heinke, C. O. & Sarazin, C. L. 2008, *Astrophysical Journal*, in prep
- “Star Formation Rates in Cooling Flow Clusters II: Extended Sample”, **Hicks, A. K.**, & Mushotzky, R. 2008, *Astrophysical Journal*, in prep
- “XMM-Newton and Chandra Observations of the Distant Massive Galaxy Cluster RCS 2327-0204”, **Hicks, A. K.**, Bautz, M., Cain, B., Ellingson, E., Garmire, G., Gilbank, D., Gladders, M., Hoekstra, H. & Yee, H. K. C. 2008, *Astrophysical Journal*, in prep
- “Multi-wavelength Observations of the Extremely Massive and High Redshift Cluster RCS2 2327-02”, Gladders, M., Hoekstra, H., Gilbank, D., **Hicks, A. K.**, Marrone, D., Barrientos, L. F., Bonamente, M., Carlstrom, J., Ellingson, E., Joy, M., Yee, H. K. C. (author list and order TBD) 2008, *Astrophysical Journal Letters*, in prep