

Publications

Refereed Publications

- “Chandra Observation of Abell 2065: An Unequal Mass Merger?” Chatzikos, M., Sarazin, C. L., & Kempner, J. C. 2006, *Astrophysical Journal*, in press (astro-ph/0602199)
- “AGN Feedback and Gas Mixing in the Core of NGC 4636,” O’Sullivan, E., Vrtilik, J., & Kempner, J. 2005, *Astrophysical Journal Letters*, **624**, 77–80
- “AWM 4 – An Isothermal Cluster Observed With XMM-Newton,” O’Sullivan, E., Vrtilik, J., Kempner, J., David, L. & Houck, J. 2004, *Monthly Notices of the Royal Astronomical Society*, **357**, 1134–1150
- “Chandra and XMM-Newton Observations of the Double Cluster Abell 1758,” David, L. P. & Kempner, J. C. 2004, *Astrophysical Journal*, **613**, 831–840
- “XMM-Newton Observation of the Merging Galaxy Cluster Abell 1644,” Reiprich, T. H., Sarazin, C. L., & Kempner, J. C. 2004, *Astrophysical Journal*, **608**, 179–188
- “A Chandra Study of the Core of the Nearby Cluster Abell 576” Kempner, J. C. & David, L. P. 2004, *Astrophysical Journal*, **607**, 220–225
- “A Chandra View of the Multiple Merger In Abell 2744,” Kempner, J. C. & David, L. P. 2004, *Monthly Notices of the Royal Astronomical Society*, **349**, 385–392
- “Chandra Observation of the Merging Cluster Abell 2034,” Kempner, J. C., Sarazin, C. L., & Markevitch, M. 2003, *Astrophysical Journal*, **593**, 291–300
- “Chandra Observations of Abell 85: Merger of the South Subcluster,” Kempner, J. C., Sarazin, C. L., & Ricker, P. M. 2002, *Astrophysical Journal*, **579**, 236–246
- “Chandra Observations of the Disruption of the Cool Core in Abell 133,” Fujita, Y., Sarazin, C. L., Kempner, J. C., Rudnick, L., Slee, O. B., Roy, A. L., Andernach, H., & Ehle 2002, *Astrophysical Journal*, **575**, 764–778
- “Radio Halo and Relic Candidates from the Westerbork Northern Sky Survey,” Kempner, J. C., & Sarazin, C. L. 2001, *Astrophysical Journal*, **548**, 639–651
- “Five Years of Pulsar Flux Monitoring: Refractive Scintillation and the Interstellar Medium,” Stinebring, D. R., Smirnova, T. V., Hankins, T. H., Hovis, J., Kaspi, V., Kempner, J. C., Myers, E., & Nice, D. 2000, *Astrophysical Journal*, **539**, 300–316
- “Nonthermal Bremsstrahlung and Hard X-ray Emission from Clusters of Galaxies,” Sarazin, C. L. & Kempner, J. C. 2000, *Astrophysical Journal*, **533**, 73–83
- “Limits on the Diffuse Radio and Hard X-ray Emission of Abell 2199,” Kempner, J. C. & Sarazin, C. L. 2000, *Astrophysical Journal*, **530**, 282–285
- “Analysis of the Si IV Ultraviolet Spectra of U Sagittae,” Kempner, J. C. & Richards, M. T. 1999, *Astrophysical Journal*, **512**, 345–350

Unrefereed Publications & Invited and Contributed Talks

- “The Not-So-Quiet Life of Isolated Clusters of Galaxies,” Beloit College Physics & Astronomy Department, February 2006, invited colloquium
- “Temperature and Metallicity Distributions in Poor Clusters,” Sidman, E. D. & Kempner, J. C., & David, L. P. 2006, *Bulletin of the American Astronomical Society*, in press
- “Breaking Self-Similarity in Poor Clusters of Galaxies,” Kempner, J. C. & David, L. P. 2006, *Bulletin of the American Astronomical Society*, in press
- “The Not-So-Quiet Life of Isolated Clusters of Galaxies,” Franklin & Marshall College Physics & Astronomy Department, November 2005, invited colloquium

- “Breaking Self-Similarity in Poor Clusters of Galaxies,” University of Minnesota Astronomy Department, March 2005, invited colloquium
- “The Diverse X-Ray Properties of Cool Clusters of Galaxies,” David, L. & Kempner, J. 2004, *AAS/High Energy Astrophysics Division*, **8**, #2.09
- “The Shocking Truth about Merging Clusters of Galaxies,” Bowdoin College, April 2004, invited colloquium
- “Exploring the L_X-T_X Relation in Cool Clusters Through the Chandra Archive,” Kempner, J. C., David, L. P., O’Sullivan, E. J., & Vrtillek, J. 2004, in *Modelling the Intracluster and Intergalactic Media*, contributed talk
- “Conference Note: A Taxonomy of Extended Radio Sources in Clusters of Galaxies,” Kempner, J. C., Blanton, E. L., Clarke, T. E., Enßlin, T. A., Johnston-Hollitt, M. & Rudnick, L. 2004, in *The Riddle of Cooling Flows in Galaxies and Clusters of Galaxies*, eds. T. H. Reiprich, J. C. Kempner, & N. Soker, E25, <http://www.astro.virginia.edu/coolflow/proc.php?regID=300>
- “Chandra Observation of the Core of Abell 576,” Kempner, J. C., & David, L. P. 2004, in *The Riddle of Cooling Flows in Galaxies and Clusters of Galaxies*, eds. T. H. Reiprich, J. C. Kempner, & N. Soker, E26, <http://www.astro.virginia.edu/coolflow/proc.php?regID=142>
- “Chandra Observation of the Merging Cluster Abell 2065: Survival of the Cooling Cores?” Chatzikos, M., Sarazin, C. L., Kempner, J. C., & Markevitch, M. 2004, in *The Riddle of Cooling Flows in Galaxies and Clusters of Galaxies*, eds. T. H. Reiprich, J. C. Kempner, & N. Soker
- “Galaxy Clusters and Cosmology,” Reiprich, T. H., Sarazin, C. L., Kempner, J. C., & Boehringer, H. 2003, in *The Cosmic Cauldron, 25th meeting of the IAU, Joint Discussion 10, 18 July 2003, Sydney, Australia*, **10**
- “A Chandra Observation of The Multiple Mergers In Abell 2744,” Kempner, J. C., David, L. P., & Vrtillek, J. M. 2003, *AAS/High Energy Astrophysics Division*, **35**, #13.11
- “Cosmic Structure Traced by Precision Measurements of the X-Ray Brightest Galaxy Clusters in the Sky,” Reiprich, T. H., Sarazin, C. L., Kempner, J. C., Skrutskie, M. F., Sivakoff, G. R., Böhringer, H., and Retzlaff, J. 2003, in *The Emergence of Cosmic Structure*, AIP Conference Series, 319–322
- “Thermal and Nonthermal Effects in Merging Clusters of Galaxies,” Kempner, J. C. 2002, Ph.D. thesis, University of Virginia
- “Radio Halo and Relic Candidates from the Westerbork Northern Sky Survey,” Naval Research Lab, October 2001, invited colloquium
- “Thermal and Nonthermal Effects in Galaxy Cluster Mergers,” Kempner, J. C. 2001, *Bulletin of the American Astronomical Society*, **199**, #69.05, contributed talk
- “Gas Stripping, Turbulence, and Wake Formation in Cluster Mergers,” Ricker, P. M., Sarazin, C. L., Kempner, J. C., Calder, A. C., Dursi, L. J., Fryxell, B., Lamb, D. Q., Olson, K., Rosner, R., Timmes, F. X., Truran, J. W., Tufo, H., Zingale, M. 2001, *Bulletin of the American Astronomical Society*, **199**, #100.16
- “Chandra Observations and the Dynamics of the Multiple Merger Cluster of Galaxies Abell 85,” Kempner, J. C., Sarazin, C. L., & Ricker, P. M. 2001, in *Two Years of Science with Chandra*
- “Dynamics of the Multiple Merger Cluster of Galaxies Abell 85,” Kempner, J. C., Sarazin, C. L., & Ricker, P. M. 2001, in *The High-Energy Universe at Sharp Focus: A Symposium of Chandra Science*, ed. Schlegel, E. M. and Vrtillek, S. (San Francisco: ASPCS) **262**, 383
- “Chandra Observations of Subcluster Mergers, Radio Relics, and the Cooling Flow - Radio Source Interactions in Abell 85,” Kempner, J. C., Sarazin, C. L., & Ricker, P. M. 2000, *Bulletin of the American Astronomical Society*, **197**, #106.03
- “Radio Halos in Clusters of Galaxies from the WENSS Survey,” Kempner, J. C., & Sarazin, C. L. 1999, *Bulletin of the American Astronomical Society*, **195**, #10.14

“No Giant Pulses or Diffraction Pattern Found in Sub-microsecond Observations of PSR J0437-4715,” Kempner, J. C., Stinebring, D. R., Bailes, M., Toscano, M., Britton, M., van Straten, W. , Novikov, S., & Wietfeldt, R. 1997, *Bulletin of the American Astronomical Society*, **191**, #111.19

“Pulsar Flux Monitoring and Refractive Scintillation,” Stinebring, D. R., Smirnova, T. V., Hovis, J., Kempner, J. C., Myers, E. B., Hankins, T. H., Kaspi, V. M., & Nice, D. J. 1996, in *Pulsars: Problems and Progress*, ed. S. Johnston, M. A. Walker, & M. Bailes, (San Francisco: ASPCS), **105**, 455