

Kenneth W. Cavagnolo List of Publications

Last updated October 14, 2009; [Hyperlinks colored blue](#)

First Author Refereed Papers	<i>“A Relationship Between AGN Jet Power and Radio Luminosity”</i> Cavagnolo, K. , McNamara, B., Nulsen, P., Carilli, C., Jones, C., Forman, W., Bîrzan, L., & Murray, S. 2009, Submitted to ApJL
	<i>“A Rare Cavity System and Changing-Look QSO in IRAS 09104+4109”</i> Cavagnolo, K. , Donahue, M., & Voit, G.M. 2009, in prep. for ApJ
	<i>“A Multiwavelength Analysis of the Galaxy Cluster RBS 797: Evidence for a Cluster-scale Line-of-Sight AGN Outburst”</i> Cavagnolo, K. , McNamara, B., Nulsen, P., Wise, M., Gitti, M., & Schwobe, A. 2009, in prep. for ApJ
	<i>“Entropy Scaling Relations For Galaxy Clusters”</i> Cavagnolo, K. , Voit, G.M., Donahue, M., & Sun, M. 2009, in prep. for ApJ
	<i>“Intracluster Medium Entropy Profiles for a Chandra Archival Sample Of Galaxy Clusters”</i> Cavagnolo, K. , Donahue, M., Voit, G.M., & Sun, M. ApJ Accepted, 2009
	<i>“An Entropy Threshold for Strong Hα and Radio Emission in the Cores of Galaxy Clusters”</i> Cavagnolo, K. , Donahue, M., Voit, G.M., & Sun, M. ApJ Accepted, 2008
Co-Author Refereed Papers	<i>“Bandpass Dependence of X-Ray Temperatures in Galaxy Clusters”</i> Cavagnolo, K. , Donahue, M., Voit, G.M., & Sun, M. ApJ Accepted, 2008
	<i>“Direct Evidence for an Outflow of Metal-Enriched Gas Along the Radio Jets of Hydra A”</i> Kirkpatrick, C.C., Gitti, M., Cavagnolo, K. , McNamara, B.R., David, L.P., Nulsen, P.E.J., and Wise, M.W. ApJ Accepted, 2009
	<i>“A Chandra X-ray Analysis of Abell 1664: Cooling, Feedback and Star Formation in the Central Cluster Galaxy”</i> Kirkpatrick, C.C., McNamara, B.R., Rafferty, D.A., Nulsen, P.E.J., Birzan, L., Kazemzadeh, F., Wise, M.W., Gitti, M. and Cavagnolo, K. ApJ Accepted, 2009

“Conduction and the Star Formation Threshold in Brightest Cluster Galaxies”

Voit, G.M., **Cavagnolo, K.**, Donahue, M., Rafferty, D., McNamara, B., & Nulsen, P.
[ApJ Accepted, 2008](#)

“Star Formation, Radio Sources, Cooling X-Ray Gas and Galaxy Interactions in the Brightest Cluster Galaxy in 2A0335+096”

Donahue, M., Sun, M., O’Dea, C., Voit, G.M., & **Cavagnolo, K.**
[AJ Accepted, 2007](#)

“s-Process Abundances in Planetary Nebulae”

Sharpee, B., Zhang, Y., Williams, R., Pellegrini, E., **Cavagnolo, K.**, Baldwin, J., Phillips, M., & Liu, X.
[ApJ Accepted, 2007](#)

“Entropy Profiles in the Cores of Cooling Flow Clusters of Galaxies”

Donahue, M., Horner, D., **Cavagnolo, K.**, & Voit, G.M.
[ApJ Accepted, 2006](#)

**Presented
Work
& Talks**

TALK: *“The AGN Jet Power and Radio Power Relationship for Isolated Giant Elliptical Galaxies”*

Jun. 2009 – The Monster’s Fiery Breath: Feedback in galaxies, groups, and clusters; University of Wisconsin-Madison

INVITED TALK: *“Using Galaxy Clusters as Galaxy Formation Labs”*

Oct. 2008 – Undergraduate Seminar Series; University of Waterloo

INVITED TALK: *“Understanding Cluster Cores: The Role of Core Entropy”*

Sep. 2008 – The Cool, Cooler and Cold - Cluster Cooling Flows in a New Light; Lorentz Center, Leiden University

INVITED TALK: *“Investigating Feedback and Relaxation in Clusters of Galaxies”*

Jul. 2008 – Center for Study of Cosmic Evolution; Michigan State University

INVITED TALK: *“From Cluster Cosmology to Galaxy Formation in Under One Hour”*

Mar. 2008 – Astrophysics Seminar; University of Waterloo

INVITED TALK: *“The Effect of Cluster Feedback on High-Precision Cosmology”*

Feb. 2008 – NASA Space Science and Technology Center; UAH-Huntsville

INVITED TALK: *“Understanding Feedback in Galaxy Clusters”*

Jan. 2008 – Center for Study of Cosmic Evolution; Michigan State University

INVITED TALK: *“Band Dependence of X-ray Temperatures”*

Oct. 2007 – Astrophysics Seminar; University of Michigan

POSTER: *“The Entropy-Feedback Connection and Quantifying Cluster Virialization”*

Oct. 2007 – Eight Years of Science with Chandra; UAH-Huntsville

POSTER: *“Chandra Studies of Dark Matter and Galaxy Formation: Signatures from the Intracluster Medium”*

Dec. 2006 – American Astronomical Society Winter Meeting

PROCEEDING: “*Abundances of s-process elements in planetary nebulae: Br, Kr & Xe*”
Jul. 2006 – International Astronomical Union Symposium

POSTER: “*Studies of Entropy Distributions in X-ray Luminous Clusters of Galaxies*”
Dec. 2005 – American Astronomical Society Winter Meeting

POSTER: “*Entropy Distributions in the Cores of Nearby X-ray Luminous Clusters of Galaxies*”
Dec. 2004 – American Astronomical Society Winter Meeting

POSTER: “*Radio-Free Cluster Cooling Flows*”
Dec. 2004 – American Astronomical Society Winter Meeting