

Dr. Kenneth W. Cavagnolo List of Publications

Last updated December 1, 2009; [Hyperlinks colored blue](#)

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|---|---|
| In
Preparation | <p><i>“A Relationship Between AGN Jet Power and Radio Luminosity”</i>
 K. Cavagnolo, B. McNamara, P. Nulsen, C. Carilli, C. Jones, W. Forman, L. Bîrzan, & S. Murray
 In prep. for ApJ</p> <p><i>“Gas Uplift and AGN Heating from the Changing-Look QSO in IRAS 09104+4109”</i>
 K. Cavagnolo, M. Donahue, B. McNamara, & G.M. Voit
 In prep. for ApJ</p> <p><i>“A Multiwavelength Analysis of the Galaxy Cluster RBS 797: Evidence for a Cluster-scale Line-of-Sight AGN Outburst”</i>
 K. Cavagnolo, B. McNamara, P. Nulsen, M. Wise, M. Gitti, & M. Brüggen
 In prep. for ApJ</p> <p><i>“Entropy Scaling Relations of ACCEPT Galaxy Clusters”</i>
 K. Cavagnolo, G.M. Voit, & M. Donahue
 In prep. for ApJ</p> <p><i>“Constraining the Spin of Black Holes Using Measured AGN Jet Powers”</i>
 M. Rohanizadegan, B. McNamara, F. Kazemzadeh, P. Nulsen, K. Cavagnolo, & C. Kirkpatrick
 In prep. for ApJL</p> |
| First
Author
Refereed
Papers | <p><i>“Intracuster Medium Entropy Profiles for a Chandra Archival Sample Of Galaxy Clusters”</i>
 K. Cavagnolo, M. Donahue, G.M. Voit, & M. Sun
 ApJ Accepted, 2009</p> <p><i>“An Entropy Threshold for Strong Hα and Radio Emission in the Cores of Galaxy Clusters”</i>
 K. Cavagnolo, M. Donahue, G.M. Voit, & M. Sun
 ApJ Accepted, 2008</p> <p><i>“Bandpass Dependence of X-Ray Temperatures in Galaxy Clusters”</i>
 K. Cavagnolo, M. Donahue, G.M. Voit, & M. Sun
 ApJ Accepted, 2008</p> |
| Co-Author
Refereed
Papers | <p><i>“Direct Evidence for an Outflow of Metal-Enriched Gas Along the Radio Jets of Hydra A”</i>
 C. Kirkpatrick, M. Gitti, K. Cavagnolo, B. McNamara, L. David, P. Nulsen, & M. Wise
 ApJL Accepted, 2009</p> |

“A Chandra X-ray Analysis of Abell 1664: Cooling, Feedback and Star Formation in the Central Cluster Galaxy”

C. Kirkpatrick, B. McNamara, D. Rafferty, P. Nulsen, L. Birzan, F. Kazemzadeh, M. Wise, M. Gitti, & **K. Cavagnolo**

[ApJ Accepted, 2009](#)

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

G.M. Voit, **K. Cavagnolo**, M. Donahue, D. Rafferty, B. McNamara, & P. Nulsen

[ApJ Accepted, 2008](#)

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

M. Donahue, M. Sun, C. O’Dea, G.M. Voit, & **K. Cavagnolo**

[AJ Accepted, 2007](#)

“s-Process Abundances in Planetary Nebulae”

B. Sharpee, Y. Zhang, R. Williams, E. Pellegrini, **K. Cavagnolo**, J. Baldwin, M. Phillips, & X. Liu

[ApJ Accepted, 2007](#)

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

M. Donahue, D. Horner, **K. Cavagnolo**, & G.M. Voit

[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