

Kenneth W. Cavagnolo Publications

Submitted	<p><i>“Direct Evidence of Radiative and Mechanical Feedback from the Quasar in IRAS 09104+4109”</i> K. Cavagnolo, M. Donahue, B. McNamara, G. M. Voit, & M. Sun Submitted to MNRAS</p>
	<p><i>“A Powerful, Line-of-Sight AGN Outburst in RBS 797”</i> K. Cavagnolo, B. McNamara, M. Wise, P. Nulsen, M. Brüggen, M. Gitti, & D. Rafferty Submitted to ApJ</p>
In Preparation	<p><i>“Identifying AGN Feedback Relics Via Steep Spectrum Radio Sources”</i> K. Cavagnolo, A. Edge, H. Röttgering, B. McNamara, M. Wise, M. Brüggen, R. van Weeren, G. Brunetti, & J. Croston In prep. for A&A</p>
	<p><i>“Entropy Scaling Relations of ACCEPT Galaxy Clusters”</i> K. Cavagnolo, G. M. Voit, M. Donahue, & S. Bruch In prep. for ApJL</p>
	<p><i>“How Difficult is SMBH Spin Axis Reorientation? Implications for AGN Feedback Models”</i> K. Cavagnolo & N. Afshordi In prep. for ApJL</p>
	<p><i>“The Radio Halo-Merger-Cooling Connection in Galaxy Clusters at $z \sim 0.5$”</i> E. Orrù, C. Ferrari, M. Arnaud, K. Cavagnolo, J. Croston, N. Jetha, G. Pratt, E. Pointecouteau, & S. Raychaudhury In prep. for A&A</p>
	<p><i>“Redistribution of Metals in Galaxy Clusters via AGN Feedback”</i> C. Kirkpatrick, B. McNamara, K. Cavagnolo, P. Nulsen, & M. Wise In prep. for ApJ</p>
	<p><i>“Normalization and Scatter of the $M-T$ Relation for Supermassive Galaxy Clusters”</i> R. Mandelbaum, R. Nakajima, N. Bahcall, G. Bernstein, K. Cavagnolo, M. Donahue, J. Hughes, C. Keeton, A. Kravtsov, S. Miyazaki, N. Padmanabhan, & T. Schrabback In prep. for ApJ</p>
First Author Refereed	<p><i>“A Relationship Between AGN Jet Power and Radio Luminosity”</i> K. Cavagnolo, B. McNamara, P. Nulsen, C. Carilli, C. Jones, & L. Birzan ApJ Published, 2010</p>
	<p><i>“Intracluster Medium Entropy Profiles for a Chandra Archival Sample Of Galaxy Clusters”</i> K. Cavagnolo, M. Donahue, G. M. Voit, & M. Sun ApJ Published, 2009</p>
	<p><i>“An Entropy Threshold for Strong $H\alpha$ and Radio Emission in the Cores of Galaxy Clusters”</i> K. Cavagnolo, M. Donahue, G. M. Voit, & M. Sun ApJ Published, 2008</p>

“Bandpass Dependence of X-Ray Temperatures in Galaxy Clusters”

K. Cavagnolo, M. Donahue, G. M. Voit, & M. Sun

[ApJ Published, 2008](#)

**Co-Author
Refereed**

“Direct Evidence for an Outflow of Metal-Enriched Gas Along the Radio Jets of Hydra A”

C. Kirkpatrick, M. Gitti, **K. Cavagnolo**, B. McNamara, L. David, P. Nulsen, & M. Wise

[ApJL Published, 2009](#)

“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 Published, 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 Published, 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 Published, 2007](#)

“s-Process Abundances in Planetary Nebulae”

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

[ApJ Published, 2007](#)

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

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

[ApJ Published, 2006](#)

**Presented
Work**

INVITED TALK: *“Exploring the Radio-mode/Quasar-mode Feedback Dichotomy”*

Nov. 2010 – CNRS Colloquium; Observatoire de la Côte d’Azur

TALK: *“The AGN Jet Power and Radio Power Relationship”*

Jun. 2009 – The Monster’s Fiery Breath Meeting; 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”*

Sept. 2008 – The Cool, Cooler, and Cold Meeting; 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; University of Alabama-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; University of Alabama-Huntsville

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

Dec. 2006 – American Astronomical Society 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 Meeting

POSTER: “*Entropy Distributions in the Cores of Nearby X-ray Luminous Clusters of Galaxies*”

Dec. 2004 – American Astronomical Society Meeting

POSTER: “*Radio-Free Cluster Cooling Flows*”

Dec. 2004 – American Astronomical Society Meeting