Dr. Kenneth W. Cavagnolo List of Publications

Last updated January 31, 2010; Hyperlinks colored blue

In Preparation

"A Relationship Between AGN Jet Power and Radio Luminosity"

K. Cavagnolo, B. McNamara, P. Nulsen, C. Carilli, C. Jones, W. Forman, & L. Bîrzan Submitted to ApJ

"Mechanical Feedback from the Obscured Quasar in IRAS 09104+4109"

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

Submitted to MNRAS

"A Multiwavelength Analysis of the Galaxy Cluster RBS 797: Evidence for a Cluster-scale Lineof-Sight AGN Outburst"

K. Cavagnolo, B. McNamara, P. Nulsen, M. Wise, M. Gitti, & M. Brüggen In prep. for ApJ

"Entropy Scaling Relations of ACCEPT Galaxy Clusters"

K. Cavagnolo, G. M. Voit, M. Donahue, & S. Bruch In prep. for ApJL

"The Complications of SMBH Spin Axis Reorientation and Implications for AGN Feedback Models"

K. Cavagnolo, B. McNamara, & N. Afshordi In prep. for ApJL

"Normalization and Scatter of the Mass-Temperature relation for Supermassive Galaxy Clusters"

R. Mandelbaum, R. Nakajima, G. Bernstein, **K. Cavagnolo**, M. Donahue, C. Keeton, J. Hughes, N. Bahcall, T. Schrabback, N. Padmanabhan, S. Miyazaki, & A. Kravtsov In prep. for ApJ

"Constraining the Spin of Supermassive Black Holes Using Measured AGN Jet Powers" M. Rohanizadegan, B. McNamara, F. Kazemzadeh, P. Nulsen, & K. Cavagnolo In prep. for ApJ

"Identifying AGN Feedback Relics Via Steep Spectrum Radio Sources"

A. Edge, **K. Cavagnolo**, H. Röttgering, B. McNamara, M. Wise, M. Brüggen, R. van Weeren, G. Brunetti, & J. Croston
In prep. for MNRAS

First Author Refereed Papers "Intracluster Medium Entropy Profiles for a Chandra Archival Sample Of Galaxy Clusters"

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

ApJ Accepted, 2009

"An Entropy Threshold for Strong $H\alpha$ and Radio Emission in the Cores of Galaxy Clusters"

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

ApJ Accepted, 2008

K.W.C., Publications

"Bandpass Dependence of X-Ray Temperatures in Galaxy Clusters"

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

ApJ Accepted, 2008

Co-Author Refereed Papers

"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 Accepted, 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 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

POSTER: "IRAS 09104+4109: At the Cross-roads of Massive Galaxy Formation?"

Jun. 2010 - From Massive Galaxy Formation to Dark Energy; University of Tokyo-Kashiwa

POSTER: "Probing SMBH Accretion History Via Radio Luminosities" Apr. 2010 – What drives the growth of black holes?; Durham University

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; Leiden University

INVITED TALK: "Investigating Feedback and Relaxation in Clusters of Galaxies" Jul. 2008 – Center for Study of Cosmic Evolution; Michigan State University

K.W.C., Publications

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 Intracluster 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