

Cooling Flows in Clusters of Galaxies

A.C. Fabian ARAA 32, 277-318 (1994)
and recent progress

Cooling Flows In Clusters And Galaxies

Christopher P. O'Dea, Juan M. Uson



Cooling Flows In Clusters And Galaxies:

Cooling Flows in Clusters and Galaxies A.C. Fabian, 2012-12-06 X ray astronomers discovered the diffuse gas in clusters of galaxies about 20 years ago It was later realized that the central gas density in some clusters and in elliptical galaxies is so high that radiative cooling is a significant energy loss The cooling time of the gas decreases rapidly towards the centre of the cluster or galaxy and is less than a Hubble time within the innermost few hundred kiloparsecs This results in a cooling flow in which the gas density rises in order to maintain pressure to support the weight of the overlying gas The rate at which mass is deposited by the flow is inferred to be several hundreds of solar masses per year in some clusters The fraction of clusters in which cooling flows are found may exceed 50 per cent Small flows probably occur in most normal elliptical galaxies that are not in rich clusters The implications of this simple phenomenon are profound for we appear to be witnessing the ongoing formation of the central galaxy In particular since most of the gas is undetected once it cools below about 3 million K it appears to form dark matter There is no reason why it should be detectable with current techniques if each cooling proton only recombines once and the matter condenses into objects of low mass

Cooling Flows in Clusters and Galaxies A C Fabian, 1988-05-31 *Cooling Flows in Clusters and Galaxies* A.C. Fabian, 1988-05-31 X ray astronomers discovered the diffuse gas in clusters of galaxies about 20 years ago It was later realized that the central gas density in some clusters and in elliptical galaxies is so high that radiative cooling is a significant energy loss The cooling time of the gas decreases rapidly towards the centre of the cluster or galaxy and is less than a Hubble time within the innermost few hundred kiloparsecs This results in a cooling flow in which the gas density rises in order to maintain pressure to support the weight of the overlying gas The rate at which mass is deposited by the flow is inferred to be several hundreds of solar masses per year in some clusters The fraction of clusters in which cooling flows are found may exceed 50 per cent Small flows probably occur in most normal elliptical galaxies that are not in rich clusters The implications of this simple phenomenon are profound for we appear to be witnessing the ongoing formation of the central galaxy In particular since most of the gas is undetected once it cools below about 3 million K it appears to form dark matter There is no reason why it should be detectable with current techniques if each cooling proton only recombines once and the matter condenses into objects of low mass

Cooling Flows in Clusters of Galaxies Avery Abraham Meiksin, 1988 **The Simulation of Cooling Flows in Clusters of Galaxies** Nasser Mohamed Ahmed, 2007 *A Study of Cooling Flows in Poor Clusters of Galaxies* National Aeronautics and Space Administration (NASA), 2018-06-28 We observed three poor clusters with central dominant galaxies AWM 4 MKW 4 and MKW 3 s using the Position Sensitive Proportional Counter on the ROSAT X ray satellite The images reveal smooth symmetrical X ray emission filling the cluster with a sharp peak on each central galaxy The cluster surface brightness profiles can be decomposed using superposed King models for the central galaxy and the intracluster medium The King model parameters for the cluster portions are consistent with previous observations of these clusters The newly

measured King model parameters for the central galaxies are typical of the X ray surface brightness distributions of isolated elliptical galaxies Spatially resolved temperature measurements in annular rings throughout the clusters show a nearly isothermal profile Temperatures are consistent with previously measured values but are much better determined There is no significant drop in temperature noted in the innermost bins where cooling flows are likely to be present nor is any excess absorption by cold gas required All cold gas columns are consistent with galactic foreground absorption We derive mass profiles for the clusters assuming both isothermal temperature profiles and cooling flow models with constant mass flow rates Our results are consistent with previous Einstein IPC observations by Kriss Cioffi Canizares but extend the mass profiles out to 1 Mpc in these poor clusters Kriss Gerard A and Dillingham Stephen Unspecified Center NAG5 1952

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Photoionization of Intergalactic Gas and Cooling Flows in Clusters of Galaxies Megan E. Donahue,1990 **Galactic and Cluster Cooling Flows** Noam Soker,1997 **Heating versus Cooling in Galaxies and Clusters of Galaxies** Hans Böhringer,Gabriel W. Pratt,Alexis Finoguenov,Peter Schuecker,2007-09-27 The Universe would be a dull and dark place if the gaseous baryons did not cool collapse and form stars and galaxies However if this gas is allowed to cool unimpeded at the rate predicted from known atomic physics in the context of a well established cosmological model the gaseous matter would form stars and galaxies with a high efficiency so that far more than the observed fraction of about 10 15% of the baryonic matter would be found in luminous stellar systems Therefore cooling must be damped or regulated by heating processes and observations show that this feedback is a widespread astrophysical phenomenon The place where this cooling and feedback manifests itself most dramatically is in the inner regions of the most massive Dark Matter halos found in our Universe in the cores of galaxy clusters The effect of cosmic cooling in these objects was recognized in the mid 1970s and the term cooling flow was introduced by Andy Fabian and colleagues at Cambridge as a possible explanation of the physical processes obtained in the central regions of clusters The name refers to the fact that gas cooling in the inner regions is associated with a loss of central pressure causing an inflow of hot gas from larger radii *A Pan-Chromatic View of Clusters of Galaxies and the Large-Scale Structure* Manolis Plionis,O. López-Cruz,D. Hughes,2008-02-17 The reviews presented in this volume cover a huge range of cluster of galaxies topics Readers will find the book essential reading on subjects such as the physics of the ICM gas the internal cluster dynamics and the detection of clusters using different observational techniques The expert chapter authors also cover the huge advances being made in analytical or numerical modeling of clusters weak and strong lensing effects and the large scale structure as traced by clusters **Evidence for Cool Gas and Star Formation in Cluster Cooling Flows** Brian Robert McNamara,1991 **Magnetic Fields in the Clusters of Galaxies with Extreme**

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Clusters of Galaxies Jelle Sijerp Kaastra,2005 Covered Physics in the core of clusters Physics of merger events The dark matter content and distribution The role of non gravitational processes and the ICM enrichment Observation of high z clusters and the evolution of cluster properties The warm intergalactic medium and Non thermal emission
Particle Acceleration in Clusters of Galaxies and Physical Connection Between Cooling Flows and Radio Mini-halos Myriam Gitti,2002* *X-ray Spectroscopic Constraints on Cooling-flow Models for Clusters of Galaxies* John Peterson,2003

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In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Cooling Flows In Clusters And Galaxies** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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