

Cosmic Clusters

Andrei M. Bykov, Jelle Kaastra, Marcus Brüggen, Maxim Markevitch, Maurizio Falanga, Frederik B. S. Paerels

Clusters of Galaxies: Beyond the Thermal View Jelle Kaastra, 2008-05-01 The existence of soft excess emission originating from clusters of galaxies, defined as emission detected below 1 keV in excess over the usual thermal emission from hot intracluster gas (hereafter the ICM) has been claimed since 1996. Soft excesses are particularly important to detect because they may (at least partly) be due to thermal emission from the Warm-Hot Intergalactic Medium, where as much as half of the baryons of the Universe could be. They are therefore of fundamental cosmological importance. Soft excess emission has been observed (and has also given rise to controversy) in a number of clusters, mainly raising the following questions: (1) Do clusters really show a soft excess? (2) If so, from what spatial region(s) of the cluster does the soft excess originate? (3) Is this excess emission thermal, originating from warm-hot intergalactic gas (at temperatures of $\sim 10^8$ K), or non-thermal, in which case several emission mechanisms have been proposed. Interestingly, some of the non-thermal mechanisms suggested to account for soft excess emission can also explain the hard X-ray emission detected in some clusters, for example by RXTE and BeppoSAX (also see Petrosian et al. 2008—Chap. 10, this issue; Rephaeli et al. 2008—Chap. 5, this issue).

Star Clusters and Black Holes in Galaxies across Cosmic Time (IAU S312) Yohai Meiron, Shuo Li, Fukun Liu, Rainer Spurzem, 2016-04-14 Star clusters and black holes are moving into the focus of high resolution astrophysics, computationally as well as observationally. For the first time, observations in many regions of the electromagnetic spectrum are converging with theoretical modelling and computer simulations. These cosmological and galaxy formation models reach down to the supermassive black hole level and follow their formation and growth in the centres of galaxies, by gas and star accretion. IAU Symposium 312 brings together experts on high resolution observations as well as theoretical modelling and computational simulations, who present their research on star clusters, black holes and their interrelations, and gravitational wave astrophysics. IAU S312 continues the tradition of IAU symposia on stellar dynamics and related areas, allowing interested graduate students and researchers to access the current state of these fields.

Tracing Cosmic Evolution with Galaxy Clusters Stefano Borgani, Marino Mezzetti, Riccardo Valdarnini, 2002 Annotation International astronomers provide an overview of multiwavelength studies of galaxy clusters including optical, X-ray to UV, near- and far-IR, sub-mm, and radio bands. The contributions emphasize two complementary aspects of clusters of galaxies: large-scale views that help trace the structure of the Universe, and enormous astrophysical laboratories that reveal the history of cosmic baryons and the processes of galaxy formation. Borgani and Mezzetti (both astronomy, U. of Trieste, Italy) edit topics including cluster formations of radio loud quasars, mass-to-light ratio of galaxy systems, and Butcher-Oemler effect in high redshift X-ray selected clusters. The volume has no subject index. Annotation (c)2003 Book News, Inc., Portland, OR (booknews.com)

Cosmic Collisions Lars Lindberg Christensen, Davide de Martin, Raquel Yumi Shida, 2010-04-07 Like no other telescope ever invented, the NASA/ESA Hubble Space Telescope has given us magnificent high resolution views of the gigantic cosmic collisions between galaxies. Hubble's images are snapshots in time and catch the colliding galaxies in different stages of collision. Thanks to a new and amazing set of 60 Hubble images, for the first time these different stages can be put together to form a still-frame movielike montage showing the incredible processes taking place as galaxies collide and merge. The significance of these cosmic encounters reaches far beyond aesthetics. Galaxy mergers may, in fact, be some of the most important processes that shape our universe. Colliding galaxies very likely, hold some of the most important clues to our cosmic past and to our destiny. It now seems clear that the Milky Way is continuously undergoing merging events, some small scale, others on a gigantic scale. And the importance of this process in the lives of galaxies is much greater than what was previously thought.

Unveiling the cosmic symphony Aarnav Acharya G, 2023-07-11 Journey into the Cosmos: Unveiling the Mysteries of Quantum Physics, Engineering,

and Astrophysics Embark on an extraordinary voyage through the captivating realms of science with Journey into the Cosmos. This remarkable book offers an exhilarating exploration of the most intriguing concepts in the universe, from quantum physics to engineering and astrophysics. Discover the enigmatic world of subatomic particles and the colossal wonders of neutron stars and superclusters. With utmost clarity, this comprehensive guide presents cutting-edge theories and revolutionary hypotheses, shedding light on the fundamental principles that govern our reality. Traverse the quantum landscape, witness the interplay of forces, and venture into the vast expanse of space to unveil the mysteries hidden within distant galaxies, black holes, and the enigmatic nature of dark matter and dark energy. Immerse yourself in this captivating literary odyssey, where every page invites you to question, wonder, and appreciate the elegant tapestry of knowledge woven by the brightest minds in the scientific community. Journey into the Cosmos is an invaluable companion for unraveling the secrets of the universe and glimpsing the awe-inspiring beauty of the natural world we call home.

The Distribution of the Galaxies William C. Saslaw, 2000 This topical volume examines one of the leading problems in astronomy - how galaxies cluster in our Universe. This book, first published in 2000, describes gravitational theory, computer simulations and observations related to galaxy distribution functions. It embeds distribution functions in a broader astronomical context, including other exciting contemporary topics such as correlation functions, fractals, bound clusters, topology, percolation and minimal spanning trees. Key results are derived and the necessary gravitational physics provided to ensure the book is self-contained. Throughout the book, theory, computer simulation and observation are carefully interwoven and critically compared. The book also shows how future observations can test the theoretical models for the evolution of galaxy clustering at early times in our Universe. This clear and authoritative volume is written at a level suitable for graduate students, and will be of key interest to astronomers, cosmologists, physicists and applied statisticians.

The Discovery of Cosmic Voids Laird A. Thompson, 2020-12-10 The large-scale structure of the Universe is dominated by vast voids with galaxies clustered in knots, sheets, and filaments, forming a great 'cosmic web'. In this personal account of the major astronomical developments leading to this discovery, we learn from Laird A. Thompson, a key protagonist, how the first 3D maps of galaxies were created. Using non-mathematical language, he introduces the standard model of cosmology before explaining how and why ideas about cosmic voids evolved, referencing the original maps, reproduced here. His account tells of the competing teams of observers, racing to publish their results, the theorists trying to build or update their models to explain them, and the subsequent large-scale survey efforts that continue to the present day. This is a well-documented account of the birth of a major pillar of modern cosmology, and a useful case study of the trials surrounding how this scientific discovery became accepted.

Cosmology Revealed: Living Inside the Cosmic Egg Anthony Fairall, 2001-01-25 Through Fairall's clear writing style, this book explains the very nature of the universe in which we dwell and incorporates a special color feature that offers three-dimensional views of the surrounding universe to ever greater depth.

Multi-scale Structure Formation and Dynamics in Cosmic Plasmas Andre Balogh, Andrei Bykov, Jonathan Eastwood, Jelle Kaastra, 2016-02-02 This book offers eleven coordinated reviews on multi-scale structure formation in cosmic plasmas in the Universe. Observations and theories of plasma structures are presented in all relevant astrophysical contexts, from the Earth's magnetosphere through heliospheric and galactic scales to clusters of galaxies and the large scale structure of the Universe. Basic processes in cosmic plasmas starting from electric currents and the helicity concept governing the dynamics of magnetic structures in planet magnetospheres, stellar winds, and relativistic plasma outflows like pulsar wind nebulae and Active Galactic Nuclei jets are covered. The multi-wavelength view from the radio to gamma-rays with modern high resolution telescopes discussed in the book reveals a beautiful and highly informative picture of both coherent and chaotic plasma structures tightly connected by strong mutual

influence. The authors are all leading scientists in their fields, making this book an authoritative, up-to-date and enduring contribution to astrophysics.

On the Role of Cosmic Rays in Clusters of Galaxies Christoph Pfrommer, 2005

Magnetic Fields in Galaxy Clusters Aurora Simionescu, 2009-01-21 Bachelor Thesis from the year 2005 in the subject Astronomy, grade: 1,0, University of Bremen, 14 entries in the bibliography, language: English, abstract: An adaptive mesh refinement simulation of galaxy cluster formation was performed that included the passive evolution of a magnetic field. It was found that structure formation plays an important role in amplifying large-scale magnetic fields and that the magnetic properties of the obtained cluster were in good agreement with recent observations. The initial field was amplified by a factor of up to 1000 during the formation of the cluster, and the field strength was seen to be well correlated with the gas density. We further found a magnetic energy power spectrum that is well described by $-5/3$ Kolmogorov-type turbulence. Near the accretion shocks on the outskirts of the cluster, the magnetic field is amplified well beyond the value expected from mere compression of gas. Here, shear flows lead to a substantial increase in field strength. Realistic Faraday rotation measures were obtained from the simulation data, which was however not resolved well-enough to allow for a more quantitative analysis.

Dark Matter and Night Dreams BÜŞRA ARSLAN HAKTANIYAN, 2023-01-01 Welcome to the enchanting world of Dark Matter and Night Dreams. In this captivating journey, we will embark on an exploration of the mysterious and intriguing aspects of the universe that have captured the imagination of scientists and dreamers alike. The universe, with all its celestial wonders, holds countless secrets waiting to be unveiled. Among them, dark matter and dark energy stand as enigmatic entities, challenging our understanding of the cosmos. As we venture into the depths of space, we will delve into the hidden realms of these invisible forces, discovering their profound influence on the formation and evolution of galaxies, clusters, and even the entire universe. Through the pages of this book, we will witness the unseen dance of satellite galaxies and the captivating spectacle of cosmic clusters. We will encounter comets, the cosmic wanderers, archiving the history of our universe. We will journey to the edge of spacetime, exploring the mind-bending phenomena of black holes. Moreover, we will indulge in the artistry of stars and galaxies, where astronomy meets aesthetics, illuminating the beauty that lies beyond the visible spectrum. As we ponder the vastness of the cosmos, we will contemplate the possibility of extraterrestrial life and the tantalizing prospects of future space travel. Dark Matter and Night Dreams is an invitation to embrace the wonders of the universe with both scientific curiosity and artistic wonder. It is a celebration of the ceaseless quest for knowledge and the boundless dreams that fuel our exploration of the cosmos. Join me on this cosmic odyssey as we unravel the mysteries that have shaped our understanding of the universe and kindled the flames of our night dreams. Let us embark on a journey beyond the known, where the stars become our guides, and the universe itself beckons us to seek the answers that lie beyond the horizon of our comprehension. May the pages that follow inspire you to gaze at the night sky with newfound awe and appreciation for the boundless beauty and mysteries it holds. Bon voyage! Büşra Arslan Haktanıyan

Galaxies and the Cosmic Frontier William Howard Waller, Paul W. Hodge, 2003 Featuring the latest observations and most compelling theories, this book provides a firm foundation for exploring the more speculative reaches of our current understanding.--BOOK JACKET.

Cosmic Entity Mark A. Strain, 2004 Sometime in the distant past, some fourteen billion years ago, all that is and all that was burst into creation in a tumultuous event. Time and space had no meaning before this genesis event that sparked creation. Cosmic Entity describes how space and time--the universe--came from nothing--a perfect balance of positive and negative energy. All matter that exists today, from the rings of Saturn to the dirt beneath your feet, was created from the seething fireball when the infant universe was less than one second old. This raw material existed in the form of protons (or hydrogen). Cosmic Entity explains how the elements were formed, how matter is synthesized within the cores of stars, and how supernovae (exploding stars) serve to create even heavier elements and seed the galaxies with this raw material. A billion or so years after creation,

give or take an eon, the universe expanded and cooled enough for interesting structures--beautiful spiral and elliptical islands of stars called galaxies--to form from the sea of matter. Galaxies grouped together into clusters and colossal super cluster walls of galaxies evident today.

A Pan-Chromatic View of Clusters of Galaxies and the Large-Scale Structure Manolis Plionis,O. López-Cruz,D. Hughes,2008-02-29 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.

Cosmic Enigmas Joseph I. Silk,1997-05-08 The dominant figures of postwar astrophysical cosmology have been the late Yakov Ze'ldovich, of Moscow, and Jim Peebles, of Princeton. But running a close third in influence has been Joseph Silk.... This collection is essential reading for the cosmological enthusiast. Nature These essays represent Joseph Silk's own meandering around cosmic themes. The topics span the beginning of time until its end and encompass the enigma of the evolution of large-scale structure, culminating in the formation of the galaxies. Dr. Silk has taken these writings from pieces written over the years, many commissioned to highlight a new look at a new discovery in cosmology. Some have been rewritten to capture a modern perspective while others remain as written to encapsulate his thoughts of a decade ago.

Clusters of Galaxies: Physics and Cosmology Andrei M. Bykov,Jelle Kaastra,Marcus Brüggen,Maxim Markevitch,Maurizio Falanga,Frederik B. S. Paerels,2020-10-31 Clusters of galaxies are large assemblies of galaxies, hot gas and dark matter bound together by gravity. Galaxy clusters are now one of the most important cosmological probes to test the standard cosmological models. Constraints on the Dark Energy equation of state from the cluster number density measurements, deviations from the Gaussian perturbation models, the Sunyaev-Zeldovich effect as well as the dark matter probes are among the issues to be studied with clusters. The baryonic composition of clusters is dominated by hot gas that is in quasi-hydrostatic equilibrium within the dark matter-dominated gravitational potential well of the cluster. The hot gas is visible through spatially extended thermal X-ray emission, and it has been studied extensively both for assessing its physical properties and as a tracer of the large-scale structure of the Universe. Magnetic fields as well as a number of non-thermal plasma processes play a role in clusters of galaxies as we observe from radioastronomical observations. The goal of this volume is to review these processes and to investigate how they are interlinked. Overall, these papers provide a timely and comprehensive review of the multi-wavelength observations and theoretical understanding of clusters of galaxies in the cosmological context. Thus, the volume will be particularly useful to postgraduate students and researchers active in various areas of astrophysics and space science. Originally published in Space Science Reviews in the Topical Collection Clusters of Galaxies: Physics and Cosmology

Nebulae Star Clusters Galaxies Wolfgang Steinicke,2019-05-23 Nebulae, star clusters, and galaxies are outside our solar system. They belong to the 'deep sky' and lead the observer to great distances and at the same time the view goes far into the past. The light of the most distant galaxies took billions of years to reach us. No less fascinating is our home galaxy, the Milky Way, offering many bright nebulae and star clusters. The book covers three important topics related to deep-sky objects: history, astrophysics, and observation. When beginners observe an object visually, not knowing anything about it, they will only perceive a faint spot of light - nothing really exciting. So, to get the right 'cosmic' feeling, the view should be enriched with stories about the object's discovery, distance, physical nature, or evolution. Supplied with this kind of information, deep-sky observing becomes a fascinating activity - braving the cold and darkness. Over time, advanced fields such as observation techniques or astrophotography come into play. The book informs the reader about all these topics and offers a comprehensive collection of interesting targets.

Searching for Dark Matter with Cosmic Gamma Rays Andrea Albert,2016-09-06 Searching for Dark Matter with Cosmic Gamma Rays summarizes

the evidence for dark matter and what we can learn about its particle nature using cosmic gamma rays. It has almost been 100 years since Fritz Zwicky first detected hints that most of the matter in the Universe that doesn't directly emit or reflect light. Since then, the observational evidence for dark matter has continued to grow. Dark matter may be a new kind of particle that is governed by physics beyond our Standard Model of particle physics. In many models, dark matter annihilation or decay produces gamma rays. There are a variety of instruments observing the gamma-ray sky from tens of MeV to hundreds of TeV. Some make deep, focused observations of small regions, while others provide coverage of the entire sky. Each experiment offers complementary sensitivity to dark matter searches in a variety of target sizes, locations, and dark matter mass scales. We review results from recent gamma-ray experiments including anomalies some have attributed to dark matter. We also discuss how our gamma-ray observations complement other dark matter searches and the prospects for future experiments.

The ubiquitous mechanism accelerating cosmic rays at all the energies Antonio Codino, 2021-02-04 The mechanism accelerating Cosmic rays in the milky way galaxy and galaxy clusters is identified and described. The acceleration of Cosmic rays is a purely electrostatic process which operate up to the maximum energies of 1023 ev in galaxy clusters. Galactic Cosmic rays are accelerated in a pervasive electrostatic field active in the whole galaxy except in restricted regions shielded by Interstellar and stellar plasma as, for instance, the region occupied by the Solar system. It is proved that the Energy spectrum of the Cosmic radiation in the milky way galaxy, in the region where the Solar system resides, has a constant Spectral index comprised between 2.64-2.68 and the maximum energies of galactic protons are 3.0×10^{19} ev. The agreement of these results with the experimental data is discussed in detail and highlighted. The various physical processes that maintain the stability of the electrostatic structure in the milky way galaxy are the same that generate the galactic magnetic field. Accordingly, the intensity, orientation and direction of the galactic magnetic field are evaluated. The results of the calculation are compared with the observation data, optical and mostly radio astronomi data. The accord of the intensity, orientation and direction of the observed magnetic field with calculation is excellent.

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Table of Contents Cosmic Clusters

1. Understanding the eBook Cosmic Clusters

- The Rise of Digital Reading Cosmic Clusters

- Advantages of eBooks Over Traditional Books

2. Identifying Cosmic Clusters

- Exploring Different Genres
- Considering Fiction vs. Non-Fiction

- Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Cosmic Clusters
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Cosmic Clusters
 - Personalized Recommendations
 - Cosmic Clusters User Reviews and Ratings
 - Cosmic Clusters and Bestseller Lists
- 5. Accessing Cosmic Clusters Free and Paid eBooks
 - Cosmic Clusters Public Domain eBooks
 - Cosmic Clusters eBook Subscription Services
 - Cosmic Clusters Budget-Friendly Options
- 6. Navigating Cosmic Clusters eBook Formats
 - ePub, PDF, MOBI, and More
 - Cosmic Clusters Compatibility with Devices
 - Cosmic Clusters Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Cosmic Clusters
 - Highlighting and Note-Taking Cosmic Clusters
 - Interactive Elements Cosmic Clusters
- 8. Staying Engaged with Cosmic Clusters
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Cosmic Clusters
- 9. Balancing eBooks and Physical Books Cosmic Clusters
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Cosmic Clusters
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Cosmic Clusters
 - Setting Reading Goals Cosmic Clusters

- Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Cosmic Clusters
 - Fact-Checking eBook Content of Cosmic Clusters
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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