



Baryonic Dark Matter

Sebastian Trujillo



Baryonic Dark Matter:

Baryonic Dark Matter D. Lynden-Bell, Gerry Gilmore, 1990-03-31 The visible universe is a small perturbation on the material universe Zwicky and Sinclair Smith in the 1930s gave evidence of invisible mass in the Coma and Virgo Clusters of Galaxies Better optical data has only served to confound their critics and the X ray data confirms that the gravitational potentials are many times larger than those predicted on the basis of the observed stars Dynamical analyses of individual galaxies have found that significant extra mass is needed to explain their rotational velocities On much larger scales tens of megaparsecs there is suggestive evidence that there is even more mass per unit luminosity What is this non luminous stuff of which the universe is made How much of it is there Need there be only one kind of stuff There are three basic possibilities all of it is ordinary baryonic matter all of it is some other kind of non baryonic matter or some of it is baryonic and some is non baryonic

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Baryonic Dark Matter and Its Detection Eamonn John Kerins, 1995

Baryonic Dark Matter in Clusters and Spiral Galaxies Lukas Grenacher, 2001

The Chaotic Universe V. G. Gurzadyan, Remo Ruffini, 2000 This unique volume is a collection of papers on various problems in astrophysics and cosmology from planetary motion to the arrow of time that are closely linked by the common spirit technique and methodology of chaos

Origin And Evolution Of The Elements - Proceedings Of The International Symposium Shigeru Kubono, Toshitaka Kajino, 1993-08-19 This volume covers a variety of modern aspects of the observational experimental and theoretical studies on the origin evolution and distribution of the elements in the Universe The topics include Early Universe and Primordial Nucleosynthesis Evolution of Galaxies Nucleosynthesis in Novae and Supernovae Neutron Stars and Hadronic Matter and Nuclear Astrophysics

Introduction to Galaxy Formation and Evolution Andrea Cimatti, Filippo Fraternali, Carlo Nipoti, 2019-10-17 A comprehensive examination of nearly fourteen billion years of galaxy formation and evolution from primordial gas to present day galaxies

Frontiers of Cosmology Alain Blanchard, Monique Signore, 2005-05-10 The field of Cosmology is currently undergoing a revolution driven by dramatic observational progresses and by novel theoretical scenarios imported from particle physics This book contains lectures by world experts in the various branches of this field corresponding to lectures

presented during the School Frontiers of the Universe at the IESC Corsica France These pedagogical lectures cover major subjects relevant to the field inflation CMB anisotropies and polarization quintessence dark energy inflation CMB anisotropies and polarization clusters of galaxies gravitational lensing galaxy formation dark matter supernovae and the accelerating expansion of the Universe providing invaluable introductory material appropriate to PhD students as well as to more senior scientists who wish to become familiar with the various domains of the modern developments in Cosmology

On the Shores of the Unknown Joseph Silk, 2005-01-03 Publisher Description Neutrino Physics and Astrophysics Y. Suzuki, Y. Totsuka, 1999-07-28 The scientific program of these important proceedings was arranged to cover most of the field of neutrino physics In light of the rapid growth of interest stimulated by new interesting results from the field more than half of the papers presented here are related to the neutrino mass and oscillations including atmospheric and solar neutrino studies Neutrino mass and oscillations could imply the existence of a mass scale many orders of magnitudes higher than presented in current physics and will probably guide scientists beyond the standard model of particle physics The Connection Between Dark and Baryonic Matter in the Process of Galaxy Formation Sebastian Trujillo, 2014 Current galaxy formation theory still struggles to explain many essential galaxy properties This thesis addresses these problems in the context of the interplay between baryons and dark matter in the concordance cosmological model In the first part we investigate galaxy abundance and scaling relations using a compilation of observational data along with large scale cosmological simulations of dark matter DM We find that standard cosmological model in conjunction with halo abundance matching HAM and simple dynamical corrections fits all basic statistics of galaxies more than the Large Magellanic Cloud LMC This zero parameter model predicts the observed luminosity velocity relation of early and late type galaxies as well as the clustering of bright galaxies and the observed abundance of galaxies as function of circular velocity However we find that all DM halos more massive than the LMC are much more abundant than galaxies they host Motivated by the model s shortcomings in the second part we study the effect of baryons on galaxy formation using numerical simulations that include gas physics We implement a model of star formation SF and stellar feedback based directly on observations of star forming regions where stellar feedback from massive stars includes radiation pressure photoheating supernovae and stellar winds We find that stellar radiation has a strong effect at $z \sim 1$ where it efficiently suppresses SF by dispersing cold and dense gas preventing runaway growth of the stellar component and yielding rising SF histories that reproduce many observations Stellar feedback produces bulgeless discs with rotation curves and baryon fractions in excellent agreement with data Feedback driven blowouts reduce the central DM density of a dwarf relieving tension between Λ CDM and observations Based on these results we begin to characterize the baryon cycle of galaxies and its imprint on studies of the circumgalactic medium CGM We find that feedback has a large impact on the exchange of gas and metals between the galaxy and the halo This is evidenced in the spatial distribution of various gas phases and in the kinematics of accretion and outflows We

conclude that synergy between simulations and absorption line studies is essential for disentangling the physics of galaxy formation in the context of lambda CDM

Matter, Dark Matter, and Anti-Matter Alain Mazure, Vincent Le Brun, 2012-02-10 For over ten years the dark side of the universe has been headline news Detailed studies of the rotation of spiral galaxies and mirages created by clusters of galaxies bending the light from very remote objects have convinced astronomers of the presence of large quantities of dark unseen matter in the cosmos The most striking fact is that they seem to compromise about 95% of the matter energy content of the universe As for ordinary matter although we are immersed in a sea of dark particles including primordial neutrinos and photons from fossil cosmological radiation both we and our environment are made of ordinary baryonic matter Authors Mazure and Le Brun present the inventory of matter baryonic and exotic and investigating the nature and fate of matter's twin anti matter They show how technological progress has been a result of basic research in tandem with the evolution of new ideas and how the combined effect of these advances might help lift the cosmic veil

The Dark Matter Problem Robert H. Sanders, 2010-04-22 Most astronomers and physicists now believe that the matter content of the Universe is dominated by dark matter hypothetical particles which interact with normal matter primarily through the force of gravity Though invisible to current direct detection methods dark matter can explain a variety of astronomical observations This book describes how this theory has developed over the past 75 years and why it is now a central feature of extragalactic astronomy and cosmology Current attempts to directly detect dark matter locally are discussed together with the implications for particle physics The author comments on the sociology of these developments demonstrating how and why scientists work and interact Modified Newtonian Dynamics MOND the leading alternative to this theory is also presented This fascinating overview will interest cosmologists astronomers and particle physicists Mathematics is kept to a minimum so the book can be understood by non specialists

Dark Vs. Baryonic Matter - a Holistic Control Martin Vlcek, 2016-08-12 Structure of the universe is discussed in the submitted work on a basis of knowledge of analogical structures The most usable one seems to be the holistic structure of a cell There are found out corresponding structures parts of control on its basis in three levels of the universe galaxy planetary system and atom The principle of this application is in the fact that the observable matter represents a control system instead of a dark matter what is controlled by it This control takes place on a basis of information about successfulness of elements of dark matter occasionally of their satisfaction This information is to some extent connected with gravitation Depending on an irregular distribution of successfulness a tension in the dark matter arises and its solution is a task for the control system ordinary baryonic matter On the top of a control pyramid there are two parts of control The first one solves this global holistic tension The second one evaluates successfulness of the first one using also information about satisfaction of elements At the same time an instrument for an objective monitoring thus structured universe is presented a structural model of events

Optical Searches for Baryonic Dark Matter David S. Graff, 1997

Observational Cosmology, the Development of Galaxy Systems Giuliano

Giuricin, Marino Mezzetti, Paolo Salucci, 1999 Distribution of Baryonic and Dark Matter in Spiral and Irregular Nearby Galaxies
Marie Korsaga, 2018 **TAUP ...** , 1995 **Nuclear Physics** , 2000 TAUP 95 Angel Morales, J. Morales, J. A. Villar, 1996

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