

Theoretical Astrophysics

Volume III: Galaxies and Cosmology

T. Padmanabhan

Theoretical Astrophysics Volume 3 Galaxies And Cosmology

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Beyond the Standard Model Cocktail Yann Gouttenoire, 2023-01-01 This book provides a remarkable and complete survey of important questions at the interface between theoretical particle physics and cosmology After discussing the theoretical and experimental physics revolution that led to the rise of the Standard Model in the past century the author reviews all the major open puzzles among them the hierarchy problem the small value of the cosmological constant the matter antimatter asymmetry and the dark matter enigma including the state of the art regarding proposed solutions Also addressed are the rapidly expanding fields of thermal dark matter cosmological first order phase transitions and gravitational wave signatures In addition the book presents the original and interdisciplinary PhD research work of the author relating to Weakly Interacting Massive Particles around the TeV scale which are among the most studied dark matter candidates Motivated by the absence of experimental evidence for such particles this thesis explores the possibility that dark matter is much heavier than what is conventionally assumed

Encyclopedia Of Cosmology, The (In 4 Volumes) Rennan Barkana, Shinji Tsujikawa, John E Kim, 2018-03-16 The Encyclopedia of Cosmology is a new and exciting project which will be a major long lasting seminal reference a set of four major volumes at the graduate student level laid out by the most prominent respected researchers in the general field of Cosmology These volumes will be a comprehensive review of the most important concepts and current status in the field of Cosmology of the Universe covering both theory and observation One of the most exciting parts of the encyclopedia is that it will exist in both print and more importantly electronic forms perhaps even with some level of interactivity with material such

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A First Course in General Relativity Bernard Schutz,2022-06-30 This widely used textbook explains general relativity for advanced undergraduates requiring only a minimal background in mathematics

Acceleration and Propagation of Cosmic Rays in High-Metallicity Astrophysical Environments Ana Laura Müller,2022-10-01 This thesis addresses the feasibility of the production of ultra high energy cosmic rays in starburst galaxies and active galactic nuclei These astrophysical objects were theoretically proposed as candidate sources a long time ago Nevertheless the interest in them has been recently renewed due to the observational data collected by the Pierre Auger Observatory and the Telescope Array In this work a comprehensive review of the current status of the research on cosmic rays accelerators is provided along with a summary of the principal concepts needed to connect these relativistic particles with electromagnetic and neutrino observations in the multi messenger era On one hand the hypothesis of accelerating particles with energies above 10^{18} eV in starburst superwinds is carefully revisited taking into account the constraints imposed by the most recent electromagnetic observations On the other hand an alternative new model for the gamma emission of the nearby active galaxy NGC 1068 is presented The implications of the results of these studies are discussed in terms of the contemporary observatories and prospects for future experiments are offered

Gravitation T. Padmanabhan,2010-01-28 Covering all aspects of gravitation in a contemporary style this advanced textbook is ideal for graduate students and researchers in all areas of theoretical physics The Foundation section develops the formalism in six chapters and uses it in the next four chapters to discuss four key applications spherical spacetimes black holes gravitational waves and cosmology The six chapters in the Frontier section describe cosmological perturbation theory quantum fields in curved spacetime and the Hamiltonian structure of general relativity among several other advanced topics some of which are covered in depth for the first time in a textbook The modular structure of the book allows different sections to be combined to suit a variety of courses Over 200 exercises are included to test and develop the reader's understanding There are also over 30 projects which help readers make the transition from the book to their own original research

Dynamics and Thermodynamics of Systems with Long Range Interactions Thierry Dauxois,Stefano Ruffo,Ennio Arimondo,Martin Wilkens,2008-01-11 Properties of systems with long range interactions are still poorly understood despite

being of importance in most areas of physics The present volume introduces and reviews the effort of constructing a coherent thermodynamic treatment of such systems by combining tools from statistical mechanics with concepts and methods from dynamical systems Analogies and differences between various systems are examined by considering a large range of applications with emphasis on Bose Einstein condensates Written as a set of tutorial reviews the book will be useful for both the experienced researcher as well as the nonexpert scientist or postgraduate student **Astrophysics for Physicists**

Arnab Rai Choudhuri, 2010-03-11 Designed for teaching astrophysics to physics students at advanced undergraduate or beginning graduate level this textbook also provides an overview of astrophysics for astrophysics graduate students before they delve into more specialized volumes Assuming background knowledge at the level of a physics major the textbook develops astrophysics from the basics without requiring any previous study in astronomy or astrophysics Physical concepts mathematical derivations and observational data are combined in a balanced way to provide a unified treatment Topics such as general relativity and plasma physics which are not usually covered in physics courses but used extensively in astrophysics are developed from first principles While the emphasis is on developing the fundamentals thoroughly recent important discoveries are highlighted at every stage **History & Mathematics**

Leonid E. Grinin, Andrey V. Korotayev, Our Yearbook History and Mathematics has already celebrated its 10th anniversary and has confidently entered its second decade The common feature of all our Yearbooks including the present volume is the usage of formal methods and social studies methods in their synthesis to analyze different historical phenomena The present Yearbook which is the seventh in the series is subtitled Big History Aspects This issue is devoted to the problems of evolutionary development of the world In no way will it be a digression from the direction which we have initially defined for our Yearbook but just an extension of the scope of the research The matter is that there are two kinds of history the history of nature or more exactly the Universe and the Earth and the history of humans and mankind It is not surprising that the idea of historicism penetrated almost every scientific field At the same time the search for common foundations of this endless in its diversity world has intensified One of the directions of this interdisciplinary search for the unity of the world in its diversity is Universal Evolutionism Big History Mathematical and formal methods help to understand much deeply both natural and human history This issue of the Yearbook consists of four main sections I Patterns of Big History II Hypotheses of Deep Big History III Biological Aspects IV History and Future of Social Systems We hope that this issue will be interesting and useful both for historians and mathematicians as well as for all those dealing with various social and natural sciences Elements of Cosmological Thermodynamics

Subhjit Saha, 2018-11-20 Based on the author's own work and results obtained by renowned cosmologists this short book provides a concise introduction to the relatively new research field of cosmological thermodynamics Starting with a brief overview of basic cosmology and thermodynamics the text gives an interesting account of the application of horizon thermodynamics to the homogeneous and isotropic Friedmann Lemaitre Robertson Walker FLRW model the inhomogeneous Lemaitre Tolman

Bondi LTB model and the gravitationally induced adiabatic particle creation scenario which is considered to be a viable alternative to the concordance Lambda CDM model of the Universe Both seasoned and new researchers in this field will appreciate the lucid presentation and the rich bibliography

Information Bulletin International Astronomical Union,2002

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Background Microwave Radiation and Intracuster Cosmology F. Melchiorri,Y. Rephaeli,2006-01-24 This study is devoted to the Sunyaev Zeldovich S Z effect and important related topics in cluster and CMB research S Z science is about to be significantly enhanced by unique multi faceted cluster and cosmological yield at a level of precision in accord with the high standards of the current era that was heralded by spectacular achievements in cosmological CMB research The pedagogical reviews and technical seminars included in this volume represent most of the important current topics in S Z work and in the astrophysics of clusters The publication touches upon all relevant aspects of the S Z effect and its use as a precise cluster and cosmological probe To commemorate the 40th anniversary of the detection of the CMB by Penzias and Wilson in 1964 there is a chapter devoted to the history of this discovery In his fascinating account of their work he outlines also some lessons pertinent to current scientific issues Other chapters discuss very interesting related observational work in Europe and the US

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