



Particle Dark Matter

Observations, Models and Searches

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Particle Dark Matter Observations Models And Searches

Gianfranco Bertone



Particle Dark Matter Observations Models And Searches:

Particle Dark Matter Gianfranco Bertone,2010-01-07 Describes the dark matter problem in particle physics astrophysics and cosmology for graduate students and researchers

Optimized Dark Matter Searches in Deep Observations of Segue 1 with MAGIC Jelena Aleksić,2015-11-06 This thesis presents the results of indirect dark matter searches in the gamma ray sky of the near Universe as seen by the MAGIC Telescopes The author has proposed and led the 160 hours long observations of the dwarf spheroidal galaxy Segue 1 which is the deepest survey of any such object by any Cherenkov telescope so far Furthermore she developed and completely characterized a new method dubbed Full Likelihood that optimizes the sensitivity of Cherenkov instruments for detection of gamma ray signals of dark matter origin Compared to the standard analysis techniques this novel approach introduces a sensitivity improvement of a factor of two i e it requires 4 times less observation time to achieve the same result In addition it allows a straightforward merger of results from different targets and or detectors By selecting the optimal observational target and combining its very deep exposure with the Full Likelihood analysis of the acquired data the author has improved the existing MAGIC bounds to the dark matter properties by more than one order of magnitude Furthermore for particles more massive than a few hundred GeV those are the strongest constraints from dwarf galaxies achieved by any gamma ray instrument both ground based or space borne alike

Behind the Scenes of the Universe Gianfranco Bertone,2013-10-10 The author illustrates in non technical terms how physicists hope to identify the nature of the mysterious form of matter that goes under the name of dark matter and that seems to permeate the Universe

Neutrinos in High Energy and Astroparticle Physics Jose Wagner Furtado Valle,Jorge Romao,2015-02-02 This self contained modern textbook provides a modern description of the Standard Model and its main extensions from the perspective of neutrino physics In particular it includes a thorough discussion of the varieties of seesaw mechanism with or without supersymmetry It also discusses schemes where neutrino mass arises from lighter messengers which might lie within reach of the world s largest particle accelerator the Large Hadron Collider Throughout the text the book stresses the role of neutrinos due to the fact that neutrino properties may serve as a guide to the correct model of unification hence for a deeper understanding of high energy physics and because neutrinos play an important role in astroparticle physics and cosmology Each chapter includes summaries and set of problems as well as further reading

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 *What is Dark Matter?* ROGELIO PEREZ CASADIEGO,2024-01-22 Dark matter is one of the most studied and debated phenomena of our time But what is dark matter In this book the author questions conventional theories about dark matter ideas and proposes a new vision Through meticulous analysis he shows that crystallized plasma answers most questions about the characteristics of dark matter This revealing theory is supported by various studies and data that challenge prevailing models Taking the crystallized plasma to answer the cosmological enigma is not an arbitrary matter to accommodate the similar characteristics between the two but is the result of the process of plasma phase changes and plasma is taken because it is 99% of the known matter in the universe Far from claiming to have the absolute truth about this complex phenomenon the author seeks to contribute to the scientific debate with a novel approach His perspective invites the academic community to reexamine entrenched conceptions and continues the relentless human quest to understand difficult questions about the universe Fundamentals of Dark Matter Ignacio Ferreras,2025-03-31 Drawing on the experience of the author this textbook focuses on pedagogy that guides students through the facts regarding dark matter but also encourages questions and critical examination of what is known through thought provoking exercises under the heading How about in each chapter Each chapter includes learning outcomes discussion questions and classroom exercises The book guides students through the first challenges in galactic astrophysics that led to the hypothesis of dark matter the subsequent detailed studies of large scale structure and cosmic microwave background that unequivocally identifies this component as a fundamental one and the latest developments in our understanding of galaxy formation The material can be used as the main textbook for a dedicated module on dark matter It can also be adopted to support a general course on extragalactic astrophysics and cosmology Praise for Fundamentals of Dark Matter The nature of dark matter is one of major outstanding questions in astrophysics and Ignacio Ferreras provides a clear and thorough overview of the fundamental aspects of the field The text contains formal exercises to test comprehension of the material but also more thought provoking How about questions that deepen the reader s understanding This book is an ideal introduction to an exciting and dynamic area of research and I recommend it highly for advanced undergraduates and beginning graduate students Rosemary Wyse Johns Hopkins University This textbook offers an accessible introduction to one of the most intriguing topics in astrophysics With a focus on foundational concepts Ferreras provides readers with the essential tools to understand the basics of dark matter research making this book a valuable resource for students and anyone beginning their journey into this fascinating field Gianfranco Bertone University of Amsterdam **Production Yield of Muon-Induced Neutrons in Lead** Holger Kluck,2015-07-28 The work presented in this book is a major step towards understanding and eventually suppressing background in the direct search for dark matter

particles scattering off germanium detectors Although the flux of cosmic muons is reduced by many orders of magnitude in underground laboratories the remaining energetic muons induce neutrons through various processes neutrons that can potentially mimic a dark matter signal This thesis describes the measurement of muon induced neutrons over more than 3 years in the Modane underground laboratory The data are complemented by a thorough modeling of the neutron signal using the GEANT4 simulation package demonstrating the appropriateness of this tool to model these rare processes As a result a precise neutron production yield can be presented Thus future underground experiments will be able to reliably model the expected rate of muon induced neutrons making it possible to develop the necessary shielding concept to suppress this background component

60 Years Of Cern Experiments And Discoveries Herwig Schopper, Luigi Di Lella, 2015-07-13

The book is a compilation of the most important experimental results achieved during the past 60 years at CERN from the mid 1950s to the latest discovery of the Higgs particle Covering the results from the early accelerators at CERN to those most recent at the LHC the contents provide an excellent review of the achievements of this outstanding laboratory Not only presented is the impressive scientific progress achieved during the past six decades but also demonstrated is the special way in which successful international collaboration exists at CERN

A Modern Primer in Particle and Nuclear Physics

Francesco Terranova, 2021 Suitable for undergraduate and graduate physics students this unique textbook provides an ideal entry point into particle nuclear and astroparticle physics and presents the modern concepts theories and experiments that explain the elementary constituents and basic forces of the universe

Lecture Notes in Cosmology Oliver

Piattella, 2018-07-21 Cosmology has become a very active research field in the last decades thanks to the impressive improvement of our observational techniques which have led to landmark discoveries such as the accelerated expansion of the universe and have put physicists in front of new mysteries to unveil such as the quest after the nature of dark matter and dark energy These notes offer an approach to cosmology covering fundamental topics in the field the expansion of the universe the thermal history the evolution of small cosmological perturbations and the anisotropies in the cosmic microwave background radiation Some extra topics are presented in the penultimate chapter and some standard results of physics and mathematics are available in the last chapter in order to provide a self contained treatment These notes offer an in depth account of the above mentioned topics and are aimed to graduate students who want to build an expertise in cosmology

Matter , Cosmology, Gravitational Waves And Particles - Proceedings Of The Conference Harald

Fritzsche, 2017-11-24 In February 2016 physicists announced the breakthrough discovery of the gravitational waves which were predicted by Albert Einstein in his century old theory of General Relativity These gravitational waves were emitted as a result of the collision of two massive black holes that happened about 1.3 billion years ago They were discovered at the Laser Interferometer Gravitational Wave Observatory LIGO in the United States and thus marked a new milestone for physics However it remains unclear to physicists how the gravitational interaction can be included in the Standard Theory of particle

physics which describes the electroweak and the strong interactions in our universe In this volume are the lectures given by the speakers at the conference on cosmology and particle physics The discussed topics range from gravitational waves to cosmology dark matter dark energy and particle physics beyond the Standard Theory

Behind the Scenes of the Universe Gianfranco Bertone, 2013-10-10 An extraordinary discovery has recently shaken the foundations of Cosmology and Particle Physics sparking a scientific revolution that has profoundly modified our understanding of our Universe and that is still far from over Pioneering astronomers in the 1920s and 1930s had already noticed suspicious anomalies in the motion of celestial bodies in distant galaxies and clusters of galaxies but it wasn't until the late 20th century that the scientific community was confronted with an astonishing conclusion the Universe is filled with an unknown elusive substance that is fundamentally different from anything we have ever seen with our telescopes or measured in our laboratories It is called dark matter and it constitutes one of the most pressing challenges of modern science In this book aimed at the general reader with an interest in science the author illustrates in non technical terms borrowing concepts and ideas from other branches of art and literature the far reaching implications of this discovery It has led to a worldwide race to identify the nature of this mysterious form of matter We may be about to witness a pivotal paradigm shift in Physics as we set out to test the existence of dark matter particles with a wide array of experiments including the Large Hadron Collider at CERN as well as with a new generation of Astroparticle experiments underground and in space

Sterile Neutrino Dark Matter Alexander Merle, 2017-05-10 This book is a new look at one of the hottest topics in contemporary science Dark Matter It is the pioneering text dedicated to sterile neutrinos as candidate particles for Dark Matter challenging some of the standard assumptions which may be true for some Dark Matter candidates but not for all So this can be seen either as an introduction to a specialized topic or an out of the box introduction to the field of Dark Matter in general No matter if you are a theoretical particle physicist an observational astronomer or a ground based experimentalist no matter if you are a grad student or an active researcher you can benefit from this text for a simple reason a non standard candidate for Dark Matter can teach you a lot about what we truly know about our standard picture of how the Universe works

Dark Matter and Dark Energy Sabino Matarrese, Monica Colpi, Vittorio Gorini, Ugo Moschella, 2011-02-10 This book brings together reviews from leading international authorities on the developments in the study of dark matter and dark energy as seen from both their cosmological and particle physics side Studying the physical and astrophysical properties of the dark components of our Universe is a crucial step towards the ultimate goal of unveiling their nature The work developed from a doctoral school sponsored by the Italian Society of General Relativity and Gravitation The book starts with a concise introduction to the standard cosmological model as well as with a presentation of the theory of linear perturbations around a homogeneous and isotropic background It covers the particle physics and cosmological aspects of dark matter and dynamical dark energy including a discussion of how modified theories of gravity could provide a possible candidate for dark energy A detailed

presentation is also given of the possible ways of testing the theory in terms of cosmic microwave background galaxy redshift surveys and weak gravitational lensing observations Included is a chapter reviewing extensively the direct and indirect methods of detection of the hypothetical dark matter particles Also included is a self contained introduction to the techniques and most important results of numerical n body simulations in cosmology This volume will be useful to researchers PhD and graduate students in Astrophysics Cosmology Physics and Mathematics who are interested in cosmology dark matter and dark energy

Manifestations of Dark Matter and Variations of the Fundamental Constants in Atoms and Astrophysical Phenomena Yevgeny V. Stadnik, 2017-07-19 This thesis explores the possibility of searching for new effects of dark matter that are linear in g an approach that offers enormous advantages over conventional schemes since the interaction constant g is very small $g \ll 1$ Further the thesis employs an investigation of linear effects to derive new limits on certain interactions of dark matter with ordinary matter that improve on previous limits by up to 15 orders of magnitude The first ever limits on several other interactions are also derived Astrophysical observations indicate that there is five times more dark matter an invisible form of matter the identity and properties of which still remain shrouded in mystery in the Universe than the ordinary visible matter that makes up stars planets dust and interstellar gases Conventional schemes for the direct detection of dark matter involve processes such as collisions with absorption by or inter conversion with ordinary matter that are either quartic g^4 or quadratic g^2 in an underlying interaction constant g

Fourteenth Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Astrophysics, And Relativistic Field Theories - Proceedings Of The Mg14 Meeting On General Relativity (In 4 Parts) Massimo Bianchi, Robert T

Jantzen, Remo Ruffini, 2017-10-13 The four volumes of the proceedings of MG14 give a broad view of all aspects of gravitational physics and astrophysics from mathematical issues to recent observations and experiments The scientific program of the meeting included 35 morning plenary talks over 6 days 6 evening popular talks and 100 parallel sessions on 84 topics over 4 afternoons Volume A contains plenary and review talks ranging from the mathematical foundations of classical and quantum gravitational theories including recent developments in string theory to precision tests of general relativity including progress towards the detection of gravitational waves and from supernova cosmology to relativistic astrophysics including topics such as gamma ray bursts black hole physics both in our galaxy and in active galactic nuclei in other galaxies and neutron star pulsar and white dwarf astrophysics The remaining volumes include parallel sessions which touch on dark matter neutrinos X ray sources astrophysical black holes neutron stars white dwarfs binary systems radiative transfer accretion disks quasars gamma ray bursts supernovas alternative gravitational theories perturbations of collapsed objects analog models black hole thermodynamics numerical relativity gravitational lensing large scale structure observational cosmology early universe models and cosmic microwave background anisotropies inhomogeneous cosmology inflation global structure singularities chaos Einstein Maxwell systems wormholes exact solutions of Einstein s equations

gravitational waves gravitational wave detectors and data analysis precision gravitational measurements quantum gravity and loop quantum gravity quantum cosmology strings and branes self gravitating systems gamma ray astronomy cosmic rays and the history of general relativity

Dark Matter Debasish Majumdar, 2014-08-27 Dark Matter An Introduction tackles the rather recent but fast growing subject of astroparticle physics encompassing three main areas of fundamental physics cosmology particle physics and astrophysics Accordingly the book discusses symmetries conservation laws relativity and cosmological parameters and measurements as well as the astrophysical behaviors of galaxies and galaxy clusters that indicate the presence of dark matter and the possible nature of dark matter distribution This succinct yet comprehensive volume Addresses all aspects essential to the study of dark matter Explores particle candidates for cold dark matter beyond the theory of the standard model providing examples of basic extensions and introducing theories such as supersymmetry and extra dimensions Explains in simple text and mathematical formulations calculation of the freeze out temperature of a dark matter species and its relic density Provides theoretical background for dark matter scattering off a target event rate calculation and dark matter annihilation essential to study direct and indirect detection of dark matter Complete with a detailed review of the latest dark matter experiments and techniques Dark Matter An Introduction is an ideal text for beginning researchers in the field as well as for general readers with an inquisitive mind as the important topic of astroparticle physics is treated both pedagogically and with deeper insight

Advances in Cosmology Marilena Streit-Bianchi, Paola Catapano, Cristiano Galbiati, Enrico Magnani, 2022-12-04 Cosmology s journey to the present day has been a long one This book outlines the latest research on modern cosmology and related topics from world class experts Through it readers will learn how multi disciplinary approaches and technologies are used to search the unknown and how we arrived at the knowledge used and assumptions made by cosmologists today The book is organized into four parts each exploring a theme that has troubled humankind for centuries Since the dawn of time looking at the sky humans have tried to understand their origin the laws governing it and what influence it all has on human life In most ancient civilizations astronomers embodied the power of knowledge This knowledge was not compartmentalized and scientists often found philosophical implications within their quests many of which destroyed the borders between the natural sciences Even now as observers and scientists continue to use conjecture to generate theoretical assumptions and laws that then have to be confirmed experimentally said theoretical and experimental searches are being linked to philosophical thinking and artistic representation as they were up until the 18th century This multi disciplinary book will appeal to anyone with an interest in the fields of Astronomy Cosmology or Physics

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