

COSMIC RAYS AND PARTICLE PHYSICS

SECOND EDITION

Thomas K. Gaisser, Ralph Engel and Elisa Resconi

Cosmic Rays And Particle Physics Gaisser

P.K.F. Grieder

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Cosmic Rays and Particle Physics Thomas K. Gaisser, 1990 Over recent years there has been marked growth in interest in the study of techniques of cosmic ray physics by astrophysicists and particle physicists Cosmic radiation is important for the astrophysicist because in the farther reaches of the universe For particle physicists it provides the opportunity to study neutrinos and very high energy particles of galactic origin More importantly cosmic rays constitue the background and in some cases possibly the signal for the more exotic unconfirmed hypothesized particles such as monopoles and sparticles Concentrating on the highest energy cosmic rays this book describes where they originate acquire energy and interact in accreting neutron stars supernova remnants in large scale shock waves It also describes their interactions in the atmosphere and in the earth how they are studied in surface and very large underground detectors and what they tell us Rays and Particle Physics Thomas K. Gaisser, Ralph Engel, Elisa Resconi, 2016-06-02 Fully updated for the second edition this book introduces the growing and dynamic field of particle astrophysics It provides an overview of high energy nuclei photons and neutrinos including their origins their propagation in the cosmos their detection on Earth and their relation to each other Coverage is expanded to include new content on high energy physics the propagation of protons and nuclei in cosmic background radiation neutrino astronomy high energy and ultra high energy cosmic rays sources and acceleration mechanisms and atmospheric muons and neutrinos Readers are able to master the fundamentals of particle astrophysics within the context of the most recent developments in the field This book will benefit graduate students and established researchers alike equipping them with the knowledge and tools needed to design and interpret their own experiments and ultimately to address a number of questions concerning the nature and origins of cosmic particles that have arisen in recent **Cosmic Rays and Particle Physics** Thomas K. Gaisser, 1990 **Cosmic Rays and Particle Physics** Thomas research K. Gaisser, 1991-01-25 Over recent years there has been marked growth in interest in the study of techniques of cosmic ray physics by astrophysicists and particle physicists Cosmic radiation is important for the astrophysicist because in the farther reaches of the universe For particle physicists it provides the opportunity to study neutrinos and very high energy particles of galactic origin More importantly cosmic rays constitue the background and in some cases possibly the signal for the more exotic unconfirmed hypothesized particles such as monopoles and sparticles Concentrating on the highest energy cosmic rays this book describes where they originate acquire energy and interact in accreting neutron stars supernova remnants in large scale shock waves It also describes their interactions in the atmosphere and in the earth how they are studied in surface and very large underground detectors and what they tell us Cosmic Rays and Particle Physics T. K. Gaisser, 1979

Particle Physics and the Universe Claes Fransson,2001 It is generally felt in the cosmology and particle astrophysics community that we have just entered an era which later can only be looked back upon as a golden age Thanks to the rapid technical development with powerful new telescopes and other detectors taken into operation at an impressive rate and the

accompanying advancement of theoretical ideas the picture of the past present and future Universe is getting ever clearer Some of the most exciting new findings and expected future developments are discussed in this invaluable volume The topics covered include the physics of the early Universe and ultra high energy processes Emphasis is also put on neutrino physics and astrophysics with the evidence for non zero neutrino masses emerging from both solar neutrinos and atmospheric neutrinos covered in great depth Another field with interesting new results concerns the basic cosmological parameters where both traditional methods and the potential of new ones like deep supernova surveys and acoustic peak detections in the cosmic microwave background are thoroughly discussed Various aspects of the dark matter problem such as gravitational lensing estimates of galaxy masses cluster evolution and hot cluster electron distortions of the thermal microwave background spectrum are also discussed as are particle physics candidates of dark matter and methods to detect them Cosmic rays of matter and antimatter are included as a topic and so is the problem of the enigmatic dark energy of the vacuum Contents Cosmology with Clusters of Galaxies N A Bahcall Radiochemical Solar Neutrino Experiments and Implications T A Kirsten Evidence for Neutrino Oscillation Observed in Super Kamiokande Y Totsuka High Energy Cosmic Neutrinos S W Barwick Discovery of the Cosmic Microwave Background D T Wilkinson Starlight in the Universe P Madau Acceleration of Ultra High Energy Cosmic Rays R D Blandford Dark Matter and Dark Energy in the Universe M S Turner Dark Matter Tomography J A Tyson Status of Models for Gamma Ray Bursts M J Rees and other papers Readership High Cosmic Rays and Particle Physics, Neutrinos and Explosive energy physicists astrophysicists and cosmologists Events in the Universe Maurice M. Shapiro, Todor Stanev, John P. Wefel, 2006-01-26 Neutrinos and Explosive Events in the Universe brought together experts from diverse disciplines to offer a detailed view of the exciting new work in this part of High Energy Astrophysics Sponsored by NATO as an Advanced Study Institute and coordinated under the auspices of the International School of Cosmic Ray Astrophysics 14th biennial course the ASI featured a full program of lectures and discussion in the ambiance of the Ettore Majorana Centre in Erice Italy including visits to the local Dirac and Chalonge museum collections as well as a view of the cultural heritage of southern Sicily Enri ment presentations on results from the Spitzer Infrared Space Telescope and the Origin of Complexity complemented the program This course was the best attended in the almost 30 year history of the School with 121 participants from 22 countries The program provided a rich ex rience both introductory and advanced to fascinating areas of observational Astrophysics Neutrino Astronomy High Energy Gamma Ray Astronomy P ticle Astrophysics and the objects most likely responsible for the signals plosions and related phenomena ranging from Supernovae to Black Holes to the Big Bang Contained in this NATO Science Series volume is a summative formulation of the physics and astrophysics of this newly emerging research area that already has been and will continue to be an important contributor to understanding our high energy universe **Cosmic Rays at Earth** P.K.F. Grieder, 2001-07-27 In 1912 Victor Franz Hess made the revolutionary discovery that ionizing radiation is incident upon the

Earth from outer space He showed with ground based and balloon borne detectors that the intensity of the radiation did not change significantly between day and night Consequently the sun could not be regarded as the sources of this radiation and the guestion of its origin remained unanswered Today almost one hundred years later the guestion of the origin of the cosmic radiation still remains a mystery Hess discovery has given an enormous impetus to large areas of science in particular to physics and has played a major role in the formation of our current understanding of universal evolution For example the development of new fields of research such as elementary particle physics modern astrophysics and cosmology are direct consequences of this discovery Over the years the field of cosmic ray research has evolved in various directions Firstly the field of particle physics that was initiated by the discovery of many so called elementary particles in the cosmic radiation There is a strong trend from the accelerator physics community to reenter the field of cosmic ray physics now under the name of astroparticle physics Secondly an important branch of cosmic ray physics that has rapidly evolved in conjunction with space exploration concerns the low energy portion of the cosmic ray spectrum Thirdly the branch of research that is concerned with the origin acceleration and propagation of the cosmic radiation represents a great challenge for astrophysics astronomy and cosmology Presently very popular fields of research have rapidly evolved such as high energy gamma ray and neutrino astronomy In addition high energy neutrino astronomy may soon initiate as a likely spin off neutrino tomography of the Earth and thus open a unique new branch of geophysical research of the interior of the Earth Finally of considerable interest are the biological and medical aspects of the cosmic radiation because of it ionizing character and the inevitable irradiation to which we are exposed This book is a reference manual for researchers and students of cosmic ray physics and associated fields and phenomena It is not intended to be a tutorial However the book contains an adequate amount of background materials that its content should be useful to a broad community of scientists and professionals The present book contains chiefly a data collection in compact form that covers the cosmic radiation in the vicinity of the Earth in the Earth s atmosphere at sea level and underground Included are predominantly experimental but also theoretical data In addition the book contains related data definitions and important relations The aim of this book is to offer the reader in a single volume a readily available comprehensive set of data that will save him the need of frequent time consuming literature searches

Nuclear and Particle Astrophysics Jorge Gustavo Hirsch, Danny Page, 1998-08-13 What is the Universe made of How old is it How does a supernova explode Can we detect black holes And where do cosmic rays originate This volume provides a comprehensive and pedagogical introduction to modern ideas and challenging problems in nuclear and particle astrophysics Based on a graduate school specially written articles by eight leading experts cover a wealth of exciting topics including the search for black holes nucleosynthesis and neutrino transport in supernovae the physics of neutron stars massive neutrinos cosmic ray physics and astrophysics and physical cosmology Together they present the Universe as a laboratory for testing cutting edge physics and bridge the gap between conference proceedings and specialised monographs This volume provides

an invaluable resource for graduate students and active researchers in nuclear and particle physics astrophysics and cosmology New Worlds In Astroparticle Physics - Proceedings Of The Fifth International Workshop Ana Maria Mourao, Mario Pimenta, Robertus Potting, Paulo M Sa, 2006-02-10 In international workshops on New Worlds in Astroparticle Physics held biannually astronomers astrophysicists and particle physicists discuss recent developments in the exciting and rapidly developing field of Astroparticle Physics Similar to previous workshops this 5th international workshop introduced experimental observational and theoretical subjects through review lectures This was followed by shorter contributions on the recent developments in Astroparticle Physics This workshop covered an array of subjects like cosmic rays gravitational waves space radiation neutrino physics cosmological parameters black holes dark matter and dark energy High Energy Cosmic Rays Todor Stanev, 2021-06-01 Offers an accessible text and reference a cosmic ray manual for graduate students entering the field and high energy astrophysicists will find this an accessible cosmic ray manual Easy to read for the general astronomer the first part describes the standard model of cosmic rays based on our understanding of modern particle physics Presents the acceleration scenario in some detail in supernovae explosions as well as in the passage of cosmic rays through the Galaxy Compares experimental data in the atmosphere as well as underground are compared with theoretical models

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 1018 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 Particle Astrophysics and Cosmology M.M. Shapiro, Rein Silberberg, John P. Wefel, 2012-12-06 Proceedings of the NATO Advanced Study Institute Erice Sicily Italy June 20 30 1992 Gamma-ray and Neutrino Signatures of Galactic Cosmic-ray Accelerators Silvia Celli, 2019-12-17 This book addresses three hot topics concerning the general problem of the origin of Galactic cosmic rays namely 1 the acceleration propagation and radiation of particles in supernova remnants 2 very high energy neutrinos from the Galactic Center and 3 the potential held by the next generation gamma ray and neutrino detectors CTA and KM3NeT for studying extended non thermal sources in the Galaxy The topics are intrinsically connected to determining the nature

hadronic or leptonic of gamma ray emissions from young and middle aged supernova remnants and the search for cosmic ray PeVatrons The results and conclusions provided here are based on extensive analytical and numerical simulations which are formulated and presented in a straightforward format that can be readily used in the interpretations of gamma ray and neutrino observations as well as for confident predictions for future measurements The Big Bang And Other **Explosions In Nuclear And Particle Astrophysics** David N Schramm, 1996-06-13 This volume of important papers by one the world's leading astrophysicists provides a sweeping survey of the incisive and exciting applications of nuclear and particle physics to a wide range of problems in astrophysics and cosmology The prime focus of the book is on Big Bang cosmology and the role of primordial nucleosynthesis in establishing the modern consensus on the Big Bang This leads into the connection of cosmology to particle physics and the constraints put on various elementary particles by astrophysical arguments Big Bang Nucleosynthesis has also led to the argument for nonbaryonic dark matter and is thus related to the major problem in physical cosmology today namely structure formation. The nuclear particle interface with astrophysics also extends to the other topics of major interest such as the age of the universe cosmic rays supernovae and solar neutrinos each of which will be discussed in some detail Each section contains historical papers current papers and frequently a popular article on the subject which provides an overview of the topic This volume is testimony to the success of the integration of nuclear and particle physics with astrophysics and cosmology and to the ingenuity of the work in this area which has earned the author numerous prestigious awards The book which is accessible to beginning graduate students should be of particular interest to researchers and students in astronomy astrophysics cosmology and gravitation and also in high energy and Neutrino Physics - Proceedings Of Nobel Symposium 129 Lars Bergstrom, O Botner, Per Carlson, P O nuclear physics Hulth, Tommy Ohlsson, 2006-03-27 Nobel Symposium 129 on Neutrino Physics was held at Haga Slott in Enk ping Sweden during August 19 24 2004 Invited to the symposium were around 40 globally leading researchers in the field of neutrino physics both experimental and theoretical The dominant theme of the lectures was neutrino oscillations which after several years were recently verified by results from the Super Kamiokande detector in Kamioka Japan and the SNO detector in Sudbury Canada Discussion focused especially on effects of neutrino oscillations derived from the presence of matter and the fact that three different neutrinos exist Since neutrino oscillations imply that neutrinos have mass this is the first experimental observation that fundamentally deviates from the standard model of particle physics This is a challenge to both theoretical and experimental physics The various oscillation parameters will be determined with increased precision in new specially designed experiments Theoretical physics is working intensively to insert the knowledge that neutrinos have mass into the theoretical models that describe particle physics The lectures provided a very good description of the intensive situation in the field right now The topics discussed also included mass models for neutrinos neutrinos in extra dimensions as well as the seesaw mechanism which provides a good description of why neutrino masses are so small This book is A4 size

and in full color **Probing Particle Physics With Neutrino Telescopes** Carlos Perez De Los Heros,2019-12-23 This book introduces the reader to how fundamental topics in particle physics can be studied with the largest neutrino telescopes currently in operation Due to their large size reaching cubic kilometer volumes and their wide energy response these unusual detectors can provide insight on neutrino oscillations dark matter searches or searches for exotic particles new neutrino interactions or extra dimensions among many other topics Lacking a man made neutrino beam neutrino telescopes use the copious flux of neutrinos continuously produced by cosmic rays interacting in the Earth's atmosphere as well as neutrinos from astrophysical origin They have therefore access to neutrinos of higher energies and much longer baselines than those produced in present accelerators being able to search for new physics at complementary scales than currently available in particle physics laboratories around the world Written by carefully chosen experts in the field the book introduces each topic in a pedagogical way apt not only to professionals but also to students or the interested reader with a background in physics

Cosmology and Particles Jean Audouze,1981 Cosmic Plasmas and Electromagnetic Phenomena Athina Meli,Yosuke Mizuno,Jose L. Gómez,2019-10-25 During the past few decades plasma science has witnessed a great growth in laboratory studies in simulations and in space Plasma is the most common phase of ordinary matter in the universe It is a state in which ionized matter even as low as 1% becomes highly electrically conductive As such long range electric and magnetic fields dominate its behavior Cosmic plasmas are mostly associated with stars supernovae pulsars and neutron stars quasars and active galaxies at the vicinities of black holes i e their jets and accretion disks Cosmic plasma phenomena can be studied with different methods such as laboratory experiments astrophysical observations and theoretical computational approaches i e MHD particle in cell simulations etc They exhibit a multitude of complex magnetohydrodynamic behaviors acceleration radiation turbulence and various instability phenomena This Special Issue addresses the growing need of the plasma science principles in astrophysics and presents our current understanding of the physics of astrophysical plasmas their electromagnetic behaviors and properties e g shocks waves turbulence instabilities collimation acceleration and radiation both microscopically and macroscopically This Special Issue provides a series of state of the art reviews from international experts in the field of cosmic plasmas and electromagnetic phenomena using theoretical approaches astrophysical observations laboratory experiments and state of the art simulation studies

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