

Cosmic Rays

Cosmic rays are high-energy particles from space that strike the Earth's atmosphere. Some get deflected back into space, but others produce showers of secondary particles.

Some particles reach the surface or travel through the Earth.

Cosmic Rays

Lev Isaakovič Dorman



Cosmic Rays:

Cosmic Rays A. M. Hillas, 2013-10-22 Cosmic Rays is a two part book that first elucidates the discovery nature and particles produced by cosmic rays This part also looks into the primary cosmic radiation radio waves from the galaxy extensive air showers origin of cosmic rays and other cosmic radiations Part 2 consists of reprinted papers involving cosmic rays Papers 1 to 10 treat the nature of the radiation arranged chronologically in Papers 11 to 16 the scene moves away from the Earth *Cosmic Rays* Lev Isaakovič Dorman, 1974 **The Story of Cosmic Rays** Germaine Beiser, Arthur Beiser, 1962

Cosmic Rays John Graham Wilson, 1976 **Cosmic Rays in the Earth's Atmosphere and Underground** Lev I. Dorman, 2004-08-24 The present monograph as well as the next one Dorman M2005 is a result of more than 50 years working in cosmic ray CR research After graduation in December 1950 Moscow Lomonosov State University Nuclear and Elementary Particle Physics Division the Team of Theoretical Physics my supervisor Professor D I Blokhintsev planned for me as a winner of a Red Diploma to continue my education as an aspirant a graduate student to prepare for Ph D in his very secret Object in the framework of what was in those time called the Atomic Problem To my regret the KGB withheld permission and I together with other Jewish students who had graduated Nuclear Divisions of Moscow and Leningrad Universities and Institutes were faced with a real prospect of being without any work It was our good fortune that at that time there was being brought into being the new Cosmic Ray Project what at that time was also very secret but not as secret as the Atomic Problem and after some time we were directed to work on this Project It was organized and headed by Prof S N Vernov President of All Union Section of Cosmic Rays and Prof N V Pushkov Director of IZMIRAN Prof E L Feinberg headed the theoretical part of the Project **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 constitute 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 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 question of its origin remained unanswered Today almost one hundred years later the question 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 its 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

Early History of Cosmic Ray Studies

Yataro Sekido, Harry Elliot, 2012-12-06 On the occasion of the International Conference on Cosmic Rays held in Kyoto in August 1979 five aged members of the cosmic ray fraternity H Elliot V L Ginzburg B Peters Y Sekido and J A Simpson met together as a dinner party devoted to the enjoyment of Japanese cuisine and reminiscences of our younger days This pleasant occasion called to of our own age as well as some eminent seniors not present at the mind the many friends conference whose recollections would have further enriched and enlivened our evening By the time the dinner came to an end we had agreed that the compilation of a more extensive collection of personal reminiscences would be an interesting and worthwhile undertaking Accordingly the next day we held an editorial meeting to draw up a list of potential authors and two of us the present editors started work on the project In putting the book together our intention has been to try to capture and record through these personal accounts something of the atmosphere the excitement and the frustrations of research in cosmic rays as experienced at first hand by some of the practitioners in the field It has never been our intention that it should comprise a

systematic history of the subject Neither unfortunately can it be a fully representative collection since practical limits to the size of the volume alone would preclude that *Astrophysics of Cosmic Rays* Veniamin Sergeevich Berezhinskiĭ, 1990 This book is devoted to the astrophysics of cosmic rays especially the origin of the cosmic rays observed on Earth The problem of the propagation and acceleration of cosmic rays in the interstellar medium and in general in the galaxy is discussed Topics of gamma and X ray astronomy and of high energy neutrino astronomy related to cosmic rays are also discussed Summaries of the observational and experimental results are given **The Origin of Cosmic Rays** V. L. Ginzburg, S. I. Syrovatskii, 2013-10-22 The Origin of Cosmic Rays examines the astrophysical phenomena that cause cosmic rays The title details the concerns in the study of tracing the sources of cosmic rays The text presents the primary cosmic rays on earth and then proceeds to tackling the cosmic magnetic bremsstrahlung radio emission and cosmic rays in the universe Next the selection deals with the motion of cosmic rays in the interstellar medium and the origin of cosmic rays The text also talks about the quantitative galactic theory of the origin of cosmic rays The book will be of great use to astronomers astrophysicists and scientists who studies phenomena that involves celestial bodies What are Cosmic Rays? Pierre Auger, 1945 High Energy Cosmic Rays Todor Stanev, 2010-03-10 Cosmic rays are an essential part of the universe Their origin is related to many important astrophysical processes such as star formation stellar evolution supernova explosions and the state of interstellar matter in the Galaxy Cosmic Ray Physics reviews our present knowledge of cosmic rays describing how they are born in a wide range of cosmic processes how they are accelerated and how they interact with matter magnetic fields and radiation during their journey across the Galaxy The book also describes the detection of cosmic rays and the processes which take place both at the top and within the Earth's atmosphere The author also describes the very important area of the underground detection of very high energy cosmic rays and particles such as neutrinos The book is divided into two parts the first describing the standard model of cosmic rays and contemporary challenges and the second part dealing with very high energy cosmic rays that cannot be detected directly in satellite and balloon experiments and with gamma ray and neutrino astronomy It is in this particular aspect of the book that the greatest developments have taken place during the 5 years since the first edition was completed Consequently it is in the chapters cosmic ray showers their spectrum on high energy neutrinos and on gamma ray astronomy of this revised and updated 2nd edition that a considerable amount of new material has been incorporated with more minor revisions and updating taking place in the first part of the book Students and lecturers of advanced undergraduate courses on cosmic rays and astroparticle physics as well as post graduates and researchers will continue to find this book a valuable source of learning and reference *Introduction to Cosmic Radiation* Otto Claus Allkofer, 1975 **The Story of Cosmic Rays** William Francis Gray Swann, 2012-10-01 The Story Of The Mysterious And Unseen But Powerful Visitors From Space *Origin of Cosmic Rays* G. Setti, G. Spada, A.W. Wolfendale, 2012-12-06 The cosmic radiation was discovered by Hess in 1912 but its origin is still the subject of much

controversy and considerable study For several decades most workers in the cosmic ray field were interested in the Nuclear Physical aspect of the particle beam and many important discoveries were made notably the identification of the positron the muon the pion and the strange particles More recently however emphasis has changed to the Astrophysical aspect both with regard to the origin of the radiation and to its relation with the other radiation fields Mindful of the increasing importance of the Astrophysical facets of the subject the Cosmic Ray Commission of IUPAP approached the High Energy Astrophysics Commission of the IAU with the suggestion of a joint Symposium on Cosmic Ray Origin The plan was to bring together workers in all the various astronomical fields from Radio through Optical to Gamma Rays with Cosmic Ray physicists and to fully explore the various interrelations The approach was received with enthusiasm and this book contains the proceedings of the ensuing Symposium styled IUPAP IAU Symposium No 94 which was held in Bologna from 11th 14th June 1980 Virtually all the papers presented are reproduced here The Scientific Organizing Committee chose the invited speakers whose papers formed the major scientific component of the meeting Additional short contributed papers were also called for and very brief 2 page resumes which have not been refereed are given in the proceedings

The Nature of the Cosmic Radiation

Thomas Hope Johnson, 2013-02 Institution Of Washington March 12 1935 Supplementary Publications Carnegie Institution Of Washington Number 13 Journal Of The Franklin Institute V220 July 1935

Cosmic Rays and Mesotrons, A Thin Cosmic Rain Michael W. Friedlander, 2002-11-30 Enigmatic for many years cosmic rays are now known to be not rays at all but particles the nuclei of atoms raining down continually on the earth where they can be detected throughout the atmosphere and sometimes even thousands of feet underground This book tells the long running detective story behind the discovery and study of cosmic rays a story that stretches from the early days of subatomic particle physics in the 1890s to the frontiers of high energy astrophysics today Writing for the amateur scientist and the educated general reader Michael Friedlander a cosmic ray researcher relates the history of cosmic ray science from its accidental discovery to its present status He explains how cosmic rays are identified and how their energies are measured then surveys current knowledge and theories of thin cosmic rain The most thorough up to date and readable account of these intriguing phenomena his book makes us party to the search into the nature behavior and origins of cosmic rays and into the sources of their enormous energy sometimes hundreds of millions times greater than the energy achievable in the most powerful earthbound particle accelerators As this search led unexpectedly to the discovery of new particles such as the muon pion kaon and hyperon and as it reveals scenes of awesome violence in the cosmos and offers clues about black holes supernovas neutron stars quasars and neutrinos we see clearly why cosmic rays remain central to an astonishingly diverse range of research studies on scales infinitesimally small and large Attractively illustrated engagingly written this is a fascinating inside look at a science at the center of our understanding of our universe

Solar Cosmic Rays

Leonty Miroshnichenko, 2001-05-31 It turned out to be really a rare and happy occasion that we know exactly when and how a new branch of space physics was born namely a

physics of solar cosmic rays It happened on February 28 and March 7 1942 when the first cosmic ray bursts were recorded on the Earth and the Sun was unambiguously identified for the first time as the source of high velocity particles with energies up to 10 eV Just due to such a high energy these relativistic particles have been called solar cosmic rays SCR in distinction from the true cosmic rays of galactic origin Between 1942 and the beginning of the space era in 1957 only extremely high energy solar particle events could be occasionally recorded by cosmic ray ground level detectors and balloon borne sensors Since then the detection techniques varied considerably and the study of SCR turned into essential part of solar and solar terrestrial physics

Composition and Origin of Cosmic Rays M.M. Shapiro, 2012-12-06 Proceedings of the NATO Advanced Study Institute Ettore Majorana Centre Erice Sicily Italy June 20 30 1982

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Table of Contents Cosmic Rays

1. Understanding the eBook Cosmic Rays
 - The Rise of Digital Reading Cosmic Rays
 - Advantages of eBooks Over Traditional Books
2. Identifying Cosmic Rays
 - 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 Rays
 - User-Friendly Interface
4. Exploring eBook Recommendations from Cosmic Rays
 - Personalized Recommendations
 - Cosmic Rays User Reviews and Ratings
 - Cosmic Rays and Bestseller Lists
5. Accessing Cosmic Rays Free and Paid eBooks
 - Cosmic Rays Public Domain eBooks
 - Cosmic Rays eBook Subscription Services

-
- Cosmic Rays Budget-Friendly Options
 - 6. Navigating Cosmic Rays eBook Formats
 - ePub, PDF, MOBI, and More
 - Cosmic Rays Compatibility with Devices
 - Cosmic Rays Enhanced eBook Features
 - 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Cosmic Rays
 - Highlighting and Note-Taking Cosmic Rays
 - Interactive Elements Cosmic Rays
 - 8. Staying Engaged with Cosmic Rays
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Cosmic Rays
 - 9. Balancing eBooks and Physical Books Cosmic Rays
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Cosmic Rays
 - 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 - 11. Cultivating a Reading Routine Cosmic Rays
 - Setting Reading Goals Cosmic Rays
 - Carving Out Dedicated Reading Time
 - 12. Sourcing Reliable Information of Cosmic Rays
 - Fact-Checking eBook Content of Cosmic Rays
 - 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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