



Solar Cosmic Rays

Antal J. Somogyi



Solar Cosmic Rays:

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 10 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 **Physics of**

Solar Cosmic Rays Kunitomo Sakurai, 1974 **Statistics of Solar Cosmic Rays as Inferred from Correlation with Intense Geomagnetic Storms** David Adamson, Robert E. Davidson, 1962 Cosmic Rays Lev Isaakovič Dorman, 1974

Solar Cosmic Rays Leonty Miroshnichenko, 2014-10-16 Presents a comprehensive approach to the open questions in solar cosmic ray research and includes consistent and detailed considerations of conceptual observational theoretical experimental and applied aspects of the field The results of solar cosmic ray SCR investigations from 1942 to the present are summarized in this book It treats the research questions in a self contained form in all of its associations from fundamental astrophysical aspects to geophysical aeronautical and cosmonautical applications A large amount of new data is included which has been accumulated during the last several decades of space research This second edition contains numerous updates and corrections to the text figures and references The author has also added several new sections about GLEs and radiation hazards In addition an extensive bibliography is provided which covers non partially the main achievements and failures in the field This volume is aimed at graduate students and researchers in solar physics and space science **SOLAR COSMIC RAYS.** L. I. Dorman, L. I. Miroshnichenko, FOREIGN TECHNOLOGY DIV WRIGHT-PATTERSON AFB OHIO., 1970 The book represents a systematic organization and analysis of general experimental material on solar cosmic rays which was obtained in the period 1942-1967 by means of surface apparatus for continuous recording of cosmic rays neutron monitors ionization chambers counter and scintillation telescopes and also from data obtained by stratospheric satellite and rocket measurements The basic attention is concentrated on questions of the generation and propagation of solar cosmic rays In particular a detailed consideration is made of the question of the shape of appearance of energy spectra of solar particles the power and exponential function of hardness and the dependence of the diffusion coefficient on particle energy and distance to the sun is discussed A special chapter is concerned with certain problems in the physics of solar flares and the generation of cosmic rays on the sun In particular the possibility of predicting flares which will emit powerful fluxes of energetic solar particles is discussed A separate section is concerned with problems of protecting cosmonauts from solar flare protons

during space flights In the Conclusions certain experimental and theoretical problems for future study of solar cosmic rays are enumerated Author Cosmic Rays and Earth J.W. Bieber,E. Eroshenko,P. Evenson,E.O. Flückiger,R.

Kallenbach,2013-04-17 The year 1998 marked the 50th anniversary of the invention of the neutron monitor a key research tool in the field of space physics and solar terrestrial relations In honor of this occasion a workshop entitled Cosmic Rays and Earth was organized to review the detection of cosmic rays at the surface and in the lower atmosphere of Earth including the effect that this radiation has on the terrestrial environment A special focus was the role of neutron monitors in the investigation of this radiation on the science enabled by the unique dataset of the worldwide network of neutron monitors and on continuing opportunities to use these data to solve outstanding problems This book is the principal product of that workshop integrating the contributions of all participants Following a general summary of the workshop prepared by the editors the volume leads off with a keynote article by Professor John Simpson describing his invention of the neutron monitor in 1948 and the early scientific discoveries made with this instrument **Biological Effects and Physics of Solar and Galactic Cosmic Radiation Part B** Charles E. Swenberg,Gerda Horneck,E.G. Stassinopoulous,2012-12-06 Space missions

subject human beings or any other target of a spacecraft to a radiation environment of an intensity and composition not available on earth Whereas for missions in low earth orbit LEO such as those using the Space Shuttle or Space Station scenario radiation exposure guidelines have been developed and have been adopted by spacefaring agencies for exploratory class missions that will take the space travellers outside the protective confines of the geomagnetic field sufficient guidelines for radiation protection are still outstanding For a piloted Mars mission the whole concept of radiation protection needs to be reconsidered Since there is an increasing interest of many nations and space agencies in establishing a lunar base and for exploring Mars by manned missions it is both timely and important to develop appropriate risk estimates and radiation protection guidelines which will have an influence on the design and structure of space vehicles and habitation areas of the extraterrestrial settlements This book is the result of a multidisciplinary effort to assess the state of art in our knowledge on the radiation situation during deep space missions and on the impact of this complex radiation environment on the space traveller It comprises the lectures by the faculty members as well as short contributions by the students given at the NATO Advanced Study Institute Biological Effects and Physics of Solar and Galactic Cosmic Radiation held in Armacao de Pera Portugal 12-23 October 1991 **Explorer Twelve Observations of Solar Cosmic Rays and Energetic Storm Particles**

After the Solar Flare of September 28, 1961 Duncan Alan Bryant,T. L. Cline,U. D. Desai,Frank Bethune McDonald,1962 A full description of the cosmic ray experiment on Explorer 12 is given and cosmic ray measurements made during the solar event of September 28 1961 are reported and discussed Galactic cosmic ray measurements are also reported A few hours before the class 3 flare of September 28 two short counting rate increases were observed and are interpreted as electron bursts The anisotropy of the medium and low energy solar protons early in the event and their intensity throughout the event

are described It is found that the history of the intensity of the solar protons is consistent once isotropy is established with their having diffused through interplanetary space with an effective mean free path of 0.04 AU This result is discussed and is shown to be not obviously in disagreement with the generally accepted views regarding the configuration of the interplanetary magnetic field An estimate of the distance from the sun at which diffusion becomes unimportant and particles escape gives 2 to 3 AU It is pointed out that simple diffusion where the particles are scattered from discrete scattering centers and the influence of a general magnetic field is negligible does not account for the behavior of the anisotropy before isotropy is reached Two days after the flare and beginning just before the sudden commencement of a magnetic storm there was a large increase in the intensity of protons between 2 and 15 Mev the lower energy limit being determined by the sensitivity of the detectors As most of these particles which we have called energetic storm particles arrived after the sudden commencement occurred we suggest that they were solar protons trapped within the plasma cloud which caused the magnetic storm The outline of a possible trapping mechanism is given Explorer 12 measurements of the Forbush decrease of September 30 1961 are compared with neutron monitor measurements at Deep River The decrease is larger at Explorer 12 by a factor of 1.703

Solar Cosmic Rays Lev Isaakovich Dorman, Leontii Ivanovich Miroshnichenko, 1976 **Solar and Galactic Cosmic Rays** P. R. Blake, W. F. Nash, 2016-06-03 *Solar and Galactic Cosmic Rays* Homage to the Discovery of Cosmic Rays, the Meson-Muon and Solar Cosmic Rays Jorge A. Pérez-Peraza, 2015 There is the conjuncture that 2012 is a special year in the history of physics that cannot go unobserved without celebration 100 years of cosmic ray discovery the 75th anniversary of Muon discovery and 70 years of the discovery of relativistic solar particles Ground Level Enhancements Several symposiums have been held in this regard among which can be mentioned is that of the one held in Pollau Austria in May 2012 There is need of a book that pays homage to these historical discoveries The aim of this book is to collect some typical papers written for researchers of the international cosmic ray community that many scientists and students would like to have in their libraries The main market for this book are universities and research institutes throughout the world and mainly in countries where there is an old tradition in cosmic ray research Europe USA Mexico Canada East Europe mainly Russia Japan Australia China etc It should also be of interest in scientific societies professional organisations or other groups relevant to the several fields of particle physics eg The Victor F Hess Society and the European Physical Society History of Physics Group EPS HoP COSPAR IUGG American Geophysical Union Union Geofisica Mexicana and others The Time Variations of Solar Cosmic Rays During July 1959 at Minneapolis J. R. WINCKLER, P. D. BHAVSAR, L. PETERSON, MINNESOTA UNIV MINNEAPOLIS., 1960 The cosmic ray particles followed directly the appearance of three large solar flares occurring on July 10 at 0210 UT on July 14 at 0325 UT and on July 16 at 2114 UT At Minneapolis the cosmic ray events were well separated Each flare was followed in from one to two days by a strong geomagnetic disturbance during which the main intensity of the cosmic rays appeared The solar cosmic ray intensity at Minneapolis dropped to zero at the

termination of each period of geomagnetic activity and cosmic ray levels remained at the galactic background until the next event began. However precursor effects and many other fluctuations were observed during the storms. The time variations observed at Minneapolis are not characteristic of the polar cap time variations. In the polar regions prompt effects were noticed at the time of the flares and also continuous large intensities which decayed slowly for many days and were unrelated to geomagnetic activity. Author **Cosmic Rays in the Heliosphere** Bernd Heber, Jizsef Kota, Rudolf von

Steiger, 2015-08-27. Presents a comprehensive synopsis of the current state of cosmic rays, their modulation and their effects in the Earth's atmosphere. Leading scientists in the field assess the current state of our understanding of the spatial and temporal variations of galactic and anomalous cosmic rays in the Heliosphere and their relation to effects of the Sun. The main objective is to understand the spatial and temporal variation of galactic and anomalous cosmic rays in the light of recent observations, theory and modeling by identifying the key mechanisms of cosmic ray modulation and how changes on the Sun relate to changes in the observed characteristics of cosmic rays in the Heliosphere, examining the current long lasting solar minimum and understanding its implications for solar cycle variations and long term variations and interpreting the long term variations of cosmogenic radionuclides in terms of solar variability and climate change on Earth. This volume is aimed at graduate students active in the fields of solar physics, space science and cosmic ray physics. Originally published in Space Science Reviews journal Vol 176 1-4 2013. *Proceedings of the 11th International Conference on Cosmic Rays, Budapest, August 25-September 4, 1969* Antal J. Somogyi, 1970

Variations of Cosmic Rays and Solar Corpuscular Streams Sergei Nikolaevich Vernov, Lev Isaakovich Dorman, 1965. Homage to the Discovery of Cosmic Rays, the Meson-Muon and Solar Cosmic Rays Jorge A. Pérez-Peraza, 2013-01-01. There is the conjuncture that 2012 is a special year in the history of physics that cannot go unobserved without celebration: 100 years of cosmic ray discovery, the 75th anniversary of Muon discovery and 70 years of the discovery of relativistic solar particles. Ground Level Enhancements. Several symposiums have been held in this regard among which can be mentioned is that of the one held in Pollau Austria in May 2012. There is need of a book that pays homage to these historical discoveries. The aim of this book is to collect some typical papers written for researchers of the international cosmic ray community that many scientists and students would like to have in their libraries. The main market for this book are universities and research institutes throughout the world and mainly in countries where there is an old tradition in cosmic ray research: Europe, USA, Mexico, Canada, East Europe, mainly Russia, Japan, Australia, China etc. It should also be of interest in scientific societies, professional organizations or other groups relevant to the several fields of particle physics: e.g. The Victor F. Hess Society and the European Physical Society. History of Physics Group, EPS, HoP, COSPAR, IUGG, American Geophysical Union, Unión Geofísica Mexicana and others. **Galactic and Solar Cosmic Ray Shielding in Deep Space** John W. Wilson, 1997. *Cosmic Rays* Martin A. Pomerantz, 1971. **Solar Cosmic Rays, Modulation of Galactic Radiation, Magnetospheric and Atmospheric Effects** A. Somogyi, International

Union of Pure and Applied Physics,1970

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