

The background of the book cover is a dark, almost black, field filled with numerous small, bright white and light blue dots, resembling a starry night sky or a field of distant galaxies. A prominent, bright, and somewhat irregular white and light blue streak or 'shower' of light extends from the top center towards the bottom, branching out slightly as it descends, suggesting a cosmic ray shower or a high-energy particle track. The overall effect is one of deep space and high-energy physics.

# SELECTED PAPERS ON COSMIC RAY ORIGIN THEORIES

edited by  
Stephen Rosen

# Selected Papers On Cosmic Ray Origin Theories

**Mario Bertolotti**



## **Selected Papers On Cosmic Ray Origin Theories:**

**Selected Papers on Cosmic Ray Origin Theories** Stephen Rosen, 1983-07  
**Origin Theories** Stephen Rosen, 1969  
**Astrophysical Formulae** Kenneth R. Lang, 2013-06-29 This second edition contains corrections of misprints and errors found by the author as well as those suggested during the Russian translation of the first printing The Russian editors and translators who kindly supplied this material include V E CHERTOPRUD A G DOROSHKEVICH V L HOHLOVA M Yu KHLOPOV D K NADIOZHIN L M ZERNOI I G PERSIANTSEV L A POKROVSKII A V ZASOV and Yu K ZEMTSOV Supplemental references for the period 1974 to 1980 have also been added as appendix where they are included under the headings of general references and specific references for each chapter Although specialized references come mainly from American journals references to reviews and books are also included to help guide the reader to other sources The author encourages suggestions for additions and corrections to possible future editions of this volume  
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10 c Speed of light in vacuum  $2.997924562 \times 10^{10}$  cm S l h 2nh Planck s constant  $6.626196 \times 10^{-27}$  erg s Rationalized Planck s constant  $1.0545919 \times 10^{-27}$  erg s h h 2n k Boltzmann s constant  $1.380622 \times 10^{-16}$  erg K 1 4  
**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

*Cosmic Ray Interactions, Propagation, and Acceleration in Space Plasmas* Lev Dorman, 2006-09-02 Chapter 1 briefly describes the main properties of space plasmas and primary CR Chapter 2 considers the problem of CR propagation in space plasmas described by the kinetic equation and different types of diffusion approximations Chapter 3 is devoted to CR non linear effects in space plasmas caused by CR pressure and CR kinetic stream instabilities with the generation of Alfvén turbulence In Chapter 4 different processes of CR acceleration in space plasmas are considered The book ends with a list providing more than 1 300 full references a discussion on future developments and unsolved problems as well as Object and Author indexes

*Astrophysics, Astronomy and Space Sciences in the History of the Max Planck Society* Luisa Bonolis, Juan-Andres Leon, 2022-12-05 This book provides the first comprehensive historical account of the evolution of scientific traditions in astronomy astrophysics and the space sciences within the Max Planck Society Structured with in depth archival research interviews with protagonists unpublished photographs and an extensive bibliography it follows a unique history from the post war relaunch of physical sciences in West Germany to the spectacular developments and successes of cosmic sciences in the second half of the 20th century up to the emergence of multi messenger astronomy It reveals how the Society acquired national and international acclaim in becoming one of the world's most productive research organizations in these fields

**Cosmic Gamma-Ray Sources** K.S. Cheng, Gustavo E. Romero, 2012-11-03 Gamma ray astronomy has undergone an enormous progress in the last 15 years The success of satellite experiments like NASA's Compton Gamma Ray Observatory and ESA's INTEGRAL mission as well as of ground based instruments have opened new views into the high energy Universe Different classes of cosmic gamma ray sources have been now detected at different energies in addition to young radio pulsars and gamma ray bursts the classical ones The new sources include radio quiet pulsars microquasars supernova remnants starburst galaxies radio galaxies flat spectrum radio quasars and BL Lacertae objects A large number of unidentified sources strongly suggests that this brief enumeration is far from complete Gamma ray bursts are now established as extragalactic sources with tremendous energy output There is accumulating evidence supporting the idea that massive stars and star forming regions can accelerate charged particles up

to relativistic energies making them gamma ray sources Gamma ray astronomy has also proved to be a powerful tool for cosmology imposing constraints to the background photon fields that can absorb the gamma ray flux from distant sources All this has profound implications for our current ideas about how particles are accelerated and transported in both the local and distant Universe The evolution of our knowledge on the gamma ray sky has been so fast that it is not easy for the non specialist scientist and the graduate student to be aware of the full potential of this field or to grasp the fundamentals of a given topic in order to attempt some original contribution

*Nuclear Science Abstracts*, 1976 **Highlights of Astronomy** C. de Jager, 2012-12-06 After the same pattern as the XIII th General Assembly of the International Astronomical Union the present Volume of the Highlights in Astronomy contains the texts of the invited discourses given at the XIVth General Assembly held in Brighton England August 1970 It contains further the papers and discussion remarks presented at the six joint discussions as well as the invited papers given at the special session on the Moon In addition this Volume contains the papers given at the joint meeting of Commissions 24 27 30 33 and 37 on RR Lyrae Stars It goes without saying that the nearly hundred papers printed in this Volume represent only a minor part of all matter dealt with at the XIVth General Assembly of the Union the many important discussions that took place in a few hundred commission meetings are not included For short abstracts and reviews of these the reader is referred to Transactions of the International Astronomical Union XIVB I wish to thank those who contributed to this Volume for the speed in submitting the manuscripts of their papers This together with the efficiency of the Publishers allowed for a rapid publication

Consolidated Translation Survey, 1961-04 **The Publishers' Trade List Annual**, 1977 The Physics of a Lifetime Vitaly L. Ginzburg, 2013-03-09 Every reader interested in understanding the important problems in physics and astrophysics and their historic development over the past 60 years will enjoy this book immensely The philosophy history and the individual views of famous scientists of the 20th century known personally to the author make this book fascinating for non physicists too The book consists of three parts on I major problems of physics and astrophysics II the philosophy and history of science and III memorial essays on famous physicists The author is an internationally renowned scientist who summarizes here his life long interests experience and insights into the work of other eminent 20th century physicists Professor Ginzburg's fundamental contributions to the theory of superconductivity encapsulated in the famous and widely used Ginzburg Landau equations have been recognized with the 2003 Nobel Prize in Physics shared with A A Abrikosov and A E Leggett

*Scientific and Technical Aerospace Reports*, 1987 **Science Journal**, 1970 **Celestial Messengers** Mario Bertolotti, 2012-10-13 The book describes from a historical point of view how cosmic rays were discovered The book describes the research in cosmic rays The main focus is on how the knowledge was gained describing the main experiments and the conclusions drawn Biographical sketches of main researchers are provided Cosmic rays have an official date of discovery which is linked to the famous balloon flights of the Austrian physicist Hess in 1912 The year 2012 can therefore be considered the centenary of the discovery **Astrophysical**

**Sources of High Energy Particles and Radiation** M.M. Shapiro,Todor Stanev,John P. Wefel,2013-04-18 A wide range of topics are covered ranging from supernovae to active galactic nuclei cosmic gamma rays to neutrinos and dark matter The basic emphasis is on physics astrophysics and experimental observational techniques scientific implications of current results and prospects for future advances The fields surveyed are in rapid development and the exploration of our high energy universe is proceeding rapidly with exciting new discoveries What unifies much of the new data is the idea of particle acceleration to enormous energies and the subsequent interactions of the particles with the local medium It is this focus that makes the book both timely and an important contribution to the field

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**The Origin of the Concept of Nuclear Forces** L.M Brown,H Rechenberg,1996-01-01 The concept of fundamental nuclear forces emerged gradually during the start of the 1930s and reached our present level of description some time before the 1950s The Origin of the Concept of Nuclear Forces presents a unified comprehensive account of the history of this important part of the modern scientific worldview In addition the authors foremost experts in the field examine the sociological and philosophical aspects of the story in light of the various theories of scientific development The book contains analyses of published work archival materials and original interviews It will be appealing primarily to historians of science and physicists interested in the roots of their field

**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

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