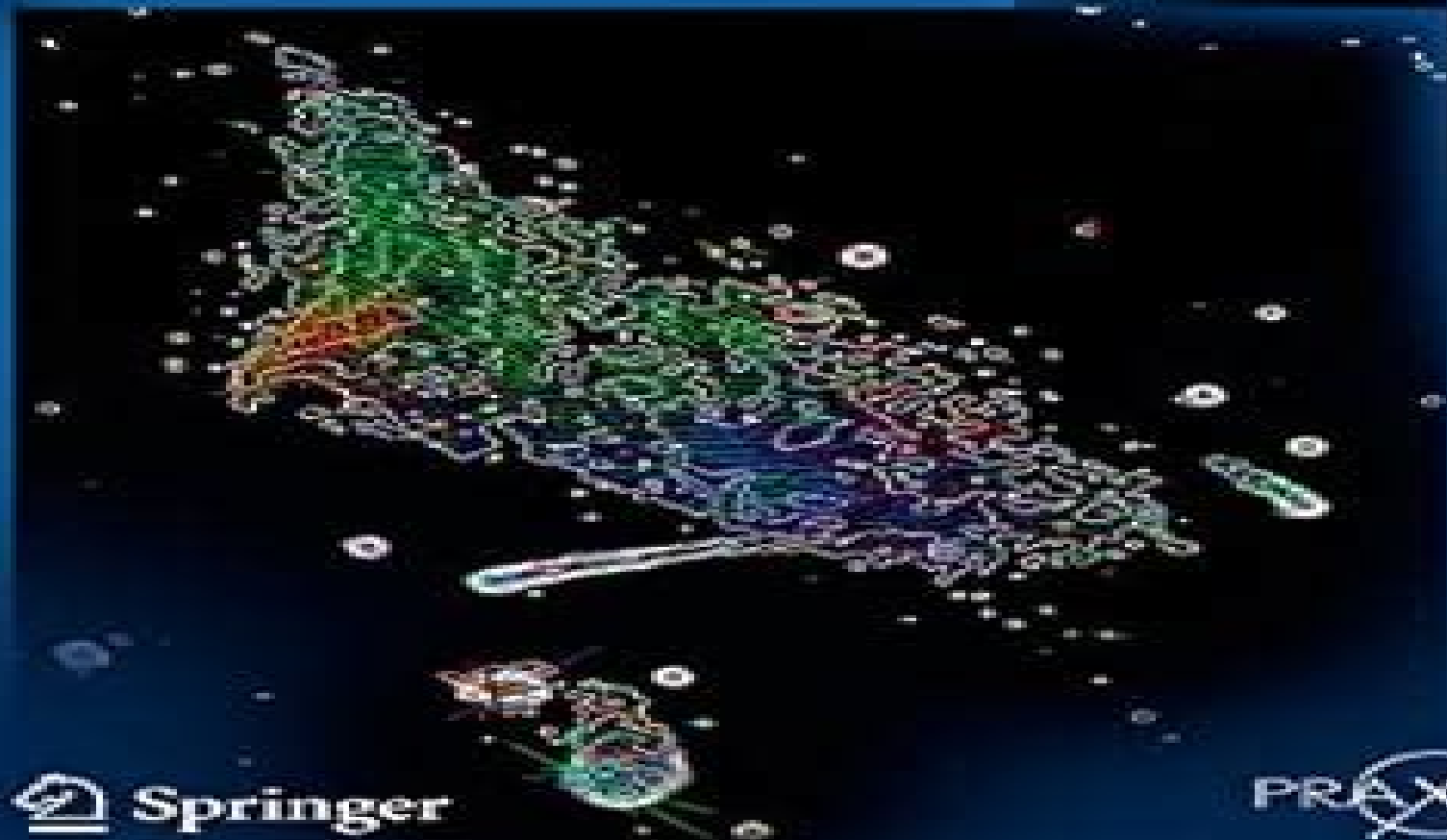



Galactic and Intergalactic Magnetic Fields

Ulrich Klein • Andrew Fletcher



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The Iranian Space Endeavor Parviz Tarikhi, 2014-07-19 Provides a detailed look at the events and policies surrounding the Iranian space endeavor For those who see the trend of progress and movement of the Iranian space endeavor from the outside it can be difficult to understand what goes on behind the scenes However for one who observes these events firsthand they take on a very different meaning In this book the author brings new and different profiles of Iran's space endeavor to light Iran claims to be the ninth leading country in the world capable of manufacturing satellites and launching them plans to land an astronaut on the Moon within a decade and says its own president plans to be the first Iranian astronaut to travel into space The author explains in this book that not all of these claims are quite as they seem In addition to technical explanations the book also includes historical legal social and cultural aspects of Iran's space program as well It is the author's goal to create a tangible feeling of Iran's space endeavor for the readers

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enormous spatial scale Because of their large sizes the nature of magnets such as the Earth and the Sun is entirely different from the nature of a horseshoe magnet The source of cosmic magnetism is associated with the hydrodynamic motions of a highly conductive medium In this aspect cosmic magnets resemble a dynamo However currents in the dynamo flow along properly ordered wires while chaotic turbulent motions are dominant inside stars and liquid planetary cores This makes more intriguing and surprising the fact that these motions maintain a regular magnetic field Maintenance of magnetic fields is even more impressive in huge magnets i e galaxies In fact we are living inside a giant dynamo machine the Milky Way galaxy Although the idea of the global magnetic field of our Galaxy was clearly proposed almost 40 years ago firm observational evidence and definite theoretical concepts of galactic magnetism have been developed only in the last decade This book is the first attempt at a full and consistent presentation of this problem We discuss both theoretical views on the origin of galactic magnetism and the methods of observational study Previous discussions were on the level of review articles or separate chapters in monographs devoted to cosmic magnetic fields see e g H K Moffatt 1978 E N Parker 1979 and Zeldovich et al 1983

Cosmic Magnetic Fields Richard Wielebinski, Rainer Beck, 2005-09-13 While magnetic fields permeate the universe on all scales the present book is dedicated to their investigation on the largest scales and affords a balanced account of both theoretical and observational aspects Written as a set of advanced lectures and tutorial reviews that lead up to the forefront of research this book offers both a modern source of reference for the experienced researchers as well as a high level introductory text for postgraduate students and nonspecialist researchers working in related areas

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Astrophysical Magnetic Fields Anvar Shukurov, Kandaswamy Subramanian, 2021-12-16 Magnetic fields permeate space and affect many major astrophysical phenomena but they are often ignored due to their perceived complexity This self contained introduction to astrophysical magnetic fields provides both a comprehensive review of the current state of the subject and a critical discussion of the latest research It presents our knowledge of magnetic fields from the Early Universe their evolution in cosmic time through to their roles in present day galaxies galaxy clusters and the wider intergalactic medium with attention given to both theory and observations This volume also contains an extensive introduction into magnetohydrodynamics

numerous worked examples observational and mathematical techniques and interpretations of the observations Its review of our current knowledge with an emphasis on results that are likely to form the basis for future progress benefits a broad audience of advanced students and active researchers including those from fields such as cosmology and general relativity

Large-scale Magnetic Fields in the Universe Rainer Beck, Andre Balogh, D. V. Bykov, Rudolf A. Treumann, Lawrence Widrow, 2014-11-09 A collection of sixteen coordinated reviews on the origins of large scale magnetic fields in the Universe this book discusses magnetic fields in all relevant astrophysical contexts from the interstellar medium to the scales of galaxies and clusters of galaxies Magnetic fields are described in their very diverse environments from stellar winds to galactic haloes and astrophysical jets together with the roles they play in forming the structures and shaping the dynamics of these objects Both observational evidence and its theoretical interpretations are covered up to the largest scales in the Universe The authors are all leading scientists in their fields making this book an authoritative up to date and enduring contribution to astrophysics This volume is aimed at graduate students and researchers in astrophysics Previously published in Space Science Reviews journal Vol 166 1 4 and Vol 169 1 4 2012 Magnetic Fields in Diffuse Media Alexander Lazarian, Elisabete M. de Gouveia Dal Pino, Claudio Melioli, 2014-11-14 This volume presents the current knowledge of magnetic fields in diffuse astrophysical media Starting with an overview of 21st century instrumentation to observe astrophysical magnetic fields the chapters cover observational techniques origin of magnetic fields magnetic turbulence basic processes in magnetized fluids the role of magnetic fields for cosmic rays in the interstellar medium and for star formation Written by a group of leading experts the book represents an excellent overview of the field Nonspecialists will find sufficient background to enter the field and be able to appreciate the state of the art **Conversations on Electric and Magnetic Fields in the Cosmos** Eugene N. Parker, 2013-03-25 Today s standard textbooks treat the theoretical structure of electric and magnetic fields but their emphasis is on electromagnetic radiation and static electric and magnetic fields In this book Eugene Parker provides advanced graduate students and researchers with a much needed complement to existing texts one that discusses the dynamic electromagnetism of the cosmos that is the vast magnetic fields that are carried bodily in the swirling ionized gases of stars and galaxies and throughout intergalactic space Parker is arguably the world s leading authority on solar wind and the effects of magnetic fields in the heliosphere and his originality of thought and distinctive approach to physics are very much in evidence here Seeking to enrich discussions in standard texts and correct misconceptions about the dynamics of these large scale fields Parker engages readers in a series of conversations that are at times anecdotal and even entertaining without ever sacrificing theoretical rigor The dynamics he describes represents the Maxwell stresses of the magnetic field working against the pressure and inertia of the bulk motion of ionized gases characterized in terms of the magnetic field and gas velocity Parker shows how this dynamic interaction cannot be fully expressed in terms of the electric current and electric field *Conversations on Electric and Magnetic Fields in the Cosmos*

goes back to basics to explain why classical hydrodynamics and magnetohydrodynamics are inescapable even in the deepest reaches of space *On the Possibility of Studying the Intergalactic Magnetic Fields with Fast Radio Bursts* Paul Marten Hinz, 2017 Magnetic Fields in the Solar System Hermann Lühr, Johannes Wicht, Stuart A. Gilder, Matthias Holschneider, 2018-01-10 This book addresses and reviews many of the still little understood questions related to the processes underlying planetary magnetic fields and their interaction with the solar wind With focus on research carried out within the German Priority Program PlanetMag it also provides an overview of the most recent research in the field Magnetic fields play an important role in making a planet habitable by protecting the environment from the solar wind Without the geomagnetic field for example life on Earth as we know it would not be possible And results from recent space missions to Mars and Venus strongly indicate that planetary magnetic fields play a vital role in preventing atmospheric erosion by the solar wind However very little is known about the underlying interaction between the solar wind and a planet's magnetic field The book takes a synergistic interdisciplinary approach that combines newly developed tools for data acquisition and analysis computer simulations of planetary interiors and dynamos models of solar wind interaction measurement of ancient terrestrial rocks and meteorites and laboratory investigations **Probing the Intergalactic Magnetic Fields by Means of High-energy Pair Halos Around Extreme Blazars** Paolo Da Vela, 2015 **Cosmic Magnetic Fields** Richard Wielebinski, Rainer Beck, 2009-09-02 While magnetic fields permeate the universe on all scales the present book is dedicated to their investigation on the largest scales and affords a balanced account of both theoretical and observational aspects Written as a set of advanced lectures and tutorial reviews that lead up to the forefront of research this book offers both a modern source of reference for the experienced researchers as well as a high level introductory text for postgraduate students and nonspecialist researchers working in related areas Magnetic Fields in Galaxies F. Krause, 1990 Presents the proceedings of the Workshop on Magnetic Fields in Galaxies which was held in Potsdam GDR in the autumn of 1988 Intergalactic Magnetic Field and the Distance of Quasars from Faraday Rotation Halton Arp, 1988 Interstellar Magnetic Fields Rainer Beck, Roland Gräbe, 2012-12-06 Proceedings of a Workshop Held at Schlo Ringberg September 8-12 1986 A Study of the Intergalactic Magnetic Field Using Extra-galactic Ultra High Energy [gamma]-ray Sources M. Honda, 1988

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