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# The Heliosphere in the Local Interstellar Medium

Into the Unknown



John D. Richardson · Andrei Bykov  
Frederic Effenberger · Klaus Scherer  
Veerle J. Sterken · Rudolf von Steiger  
Gary P. Zank *Editors*

# Heliosphere In The Local Interstellar Medium

**Carolus J. Schrijver, George L. Siscoe**



## **Heliosphere In The Local Interstellar Medium:**

Exploration of the Outer Heliosphere and the Local Interstellar Medium National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on Solar and Space Physics, 2004-10-25 This report is the summary of a workshop held in May 2003 by the Space Studies Board's Committee on Solar and Space Physics to synthesize understanding of the physics of the outer heliosphere and the critical role played by the local interstellar medium (LISM) and to identify directions for the further exploration of this challenging environment

**The Heliosphere in the Local Interstellar Medium** Rudolf von Steiger, R. Lallement, M.A. Lee, 2012-12-06 In summary we can conclude that the contributions of the different ionization processes to the total ionization rate for the most abundant interstellar species are basically known. The ionization of the noble gases He and Ne is almost completely dominated by photoionization whereas for H charge exchange with the solar wind is most important. For other species such as O and Ar both processes contribute significantly. Electron impact ionization can typically contribute by 10% to the total rate in the inner Solar System. Because direct measurements of the solar EUV flux are not yet continuously available the variation of the ionization rate over the solar cycle still contains a relatively large uncertainty. The recent measurements of pickup ion distributions and of the neutral helium gas provide an independent tool to determine the total ionization rate that can be used to cross calibrate with the results obtained for the individual ionization processes. Acknowledgements The authors are grateful to M Allen for supplying us with new data on photoionization cross sections compiled by him. We thank also M Gruntman for drawing our attention to and support in collecting the most recent data on charge exchange cross sections. D R was supported by grant No 2 P03C 004 09 from the Committee for Scientific Research Poland. This work was also supported in part through NASA contract NAS7 918 NSF Grant INT 911637 NASA Grant NAGW 2579

*The Heliosphere in the Local Interstellar Medium* John D. Richardson, Andrei Bykov, Frederic Effenberger, Klaus Scherer, Veerle J Sterken, Rudolf von Steiger, Gary P. Zank, 2023-11-23 The Heliosphere in the Local Interstellar Medium the Proceedings of the First ISSI Workshop 6-10 November 1995 Bern Switzerland edited by R von Steiger, R Lallement and M A Lee and published in 1996 was the first International Space Science Institute (ISSI) book in the Space Sciences Series. This book covers the knowledge gained in the subsequent 27 years that revolutionized our understanding of the interaction of the heliosphere with the very local interstellar medium (VLISM). Entirely new regions of space have been explored. The Voyagers both crossed the termination shock, passed through the heliosheath, crossed the heliopause and entered the interstellar medium. New Horizons was launched with more modern instrumentation and explores low latitude regions of the outer heliosphere. Energetic neutral atoms observed by IBEX and CASSINI allowed exploration of the heliosphere over the whole sky. The initial reconnaissance of the heliosphere and VLISM is complete with in situ measurements, observations of energetic neutral atoms (ENAs), neutral VLISM H and He UV emissions and interstellar dust. This book is a collection of reviews from experts in the many aspects of this field that describe the current

state of knowledge of the heliosphere's interaction with the interstellar medium puzzles yet to be solved and future plans to continue these studies

**From the Outer Heliosphere to the Local Bubble** J.L. Linsky, V.V. Izmodenov, E. Mobius, Rudolf von Steiger, 2009-04-29 Knowledge about the outer heliosphere and the interstellar medium which were long treated as two separate fields has improved dramatically over the past 25 years as a consequence of recent developments The discovery of interstellar pickup ions and neutral helium inside the heliosphere the determination of the interstellar hydrogen distribution in the heliosphere obtained using backscattered solar Lyman alpha radiation the prediction and subsequent detection of the hydrogen wall just outside of the heliopause the development of detailed global models for the interaction of solar wind plasma with the interstellar medium and most recently direct in situ plasma and field measurements inside of the heliosheath At the same time our understanding of the nearby galactic environment including the composition and dynamics of the warm gas clouds and hot gas in the local bubble has benefited greatly from absorption line spectroscopy using nearby stars as background sources and dynamic modeling The present volume provides a synopsis of these developments organised into seven sections Dominant physical processes in the termination shock and heliosheath three dimensional shape and structure of the dynamic heliosphere relation of the plasmas and dust inside and outside of the heliosphere origin and properties of the very local interstellar medium energy and pressure equilibria in the local bubble physical processes in the multiphase interstellar medium inside of the local bubble and the roles that magnetic fields play in the outer heliosphere and the local bubble The last theme is probably the most basic of all as magnetic fields play important roles in most of the phenomena discussed here The volume concludes with four papers providing the big picture by looking at the time evolution of both the heliosphere and the local bubble looking beyond the local bubble and finally addressing the challenges in modeling the interface between the two media

**The heliosphere in the local interstellar medium** Rudolf von Steiger, 1996 [The Heliosphere in the Local Interstellar Medium](#), 1996 [The Transport of Energetic Particles in the Heliosphere and the Local Interstellar Medium](#) Ciarán Kenny, 2016

**Solar Journey: The Significance of Our Galactic Environment for the Heliosphere and Earth** P.C. Frisch, 2006-09-12 Written by experts who created the field this volume explores uncharted scientific territory with articles discussing the effect of our galactic environment on the heliosphere planetary system and Earth Leading experts in diverse fields discuss the physical changes expected as the heliosphere adjusts to its galactic environment Topics include the interaction between solar wind and interstellar dust and gas cosmic ray modulation magnetospheres variations in the solar environment and the cosmic ray isotope record preserved in paleoclimate data

**A Numerical Investigation of the Interaction of the Heliosphere with the Local Interstellar Medium** Chi Wang, 1998

[The Outer Heliosphere: The Next Frontiers](#) E. Marsch, H.-J. Fahr, K. Scherer, 2001-09-19 The eleventh COSPAR colloquium The Outer Heliosphere The Next Frontiers was held in Potsdam Germany from 24-28 July 2000 and is the second dedicated to this subject after the first one held in Warsaw Poland in 1989 Roughly a century has passed after the first ideas by Oliver

Lodge George Francis Fitzgerald and Kristan Birkeland about particle clouds emanating from the Sun and interacting with the Earth environment Only a few decades after the formulation of the concepts of a continuous solar corpuscular radiation by Ludwig Bierman and a solar wind by Eugene Parker heliospheric physics has evolved into an important branch of astrophysical research Numerous spacecraft missions have increased the knowledge about the heliosphere tremendously Now at the beginning of a new millenium it seems possible by newly developed propulasion technologies to send a spacecraft beyond the boundaries of the heliosphere Such an Interstellar Proce will start the in situ exploration of interstellar space and thus can be considered as the first true astrophysical spacecraft The year 2000 appeared to be a highly welcome occassion to review the achievements since the last COSPAR Colloquia 11 years ago to summarize the present developments and to give new impulse for future activities in heliospheric research **The Heliosphere through the Solar Activity Cycle A.**

Balogh,Louis J. Lanzerotti,Steve T. Suess,2007-12-08 Understanding how the Sun changes though its 11 year sunspot cycle and how these changes affect the vast space around the Sun the heliosphere has been one of the principal objectives of space research since the advent of the space age This book presents the evolution of the heliosphere through an entire solar activity cycle The last solar cycle cycle 23 has been the best observed from both the Earth and from a fleet of spacecraft Of these the joint ESA NASA Ulysses probe has provided continuous observations of the state of the heliosphere since 1990 from a unique vantage point that of a nearly polar orbit around the Sun Ulysses results affect our understanding of the heliosphere from the interior of the Sun to the interstellar medium beyond the outer boundary of the heliosphere Written by scientists closely associated with the Ulysses mission the book describes and explains the many different aspects of changes in the heliosphere in response to solar activity In particular the authors describe the rise in solar activity from the last minimum in solar activity in 1996 to its maximum in 2000 and the subsequent decline in activity Magnetotails in the Solar System

Andreas Keiling,Caitríona Jackman,Peter Delamere,2015-02-02 All magnetized planets in our solar system Mercury Earth Jupiter Saturn Uranus and Neptune interact strongly with the solar wind and possess well developed magnetotails It is not only the strongly magnetized planets that have magnetotails Mars and Venus have no global intrinsic magnetic field yet they possess induced magnetotails Comets have magnetotails that are formed by the draping of the interplanetary magnetic field In the case of planetary satellites moons the magnetotail refers to the wake region behind the satellite in the flow of either the solar wind or the magnetosphere of its parent planet The largest magnetotail of all in our solar system is the heliotail the magnetotail of the heliosphere The variety of solar wind conditions planetary rotation rates ionospheric conductivity and physical dimensions provide an outstanding opportunity to extend our understanding of the influence of these factors on magnetotail processes and structures Volume highlights include Discussion on why a magnetotail is a fundamental problem of magnetospheric physics Unique collection of tutorials on a large range of magnetotails in our solar system In depth reviews comparing magnetotail processes at Earth with other magnetotail structures found throughout the heliosphere

Collectively Magnetotails in the Solar System brings together for the first time in one book a collection of tutorials and current developments addressing different types of magnetotails As a result this book should appeal to a broad community of space scientists and it should also be of interest to astronomers who are looking at tail like structures beyond our solar system

**Heliophysics: Evolving Solar Activity and the Climates of Space and Earth** Carolus J. Schrijver, George L. Siscoe, 2010-09-23 Heliophysics is a fast developing scientific discipline that integrates studies of the Sun's variability the surrounding heliosphere and the environment and climate of planets Over the past few centuries our understanding of how the Sun drives space weather and climate on the Earth and other planets has advanced at an ever increasing rate This 2010 volume the last in this series of three heliophysics texts focuses on long term variability from the Sun's decade long sunspot cycle and considers the evolution of the planetary system over ten billion years from a climatological perspective Topics covered range from the dynamo action of stars and planets to processes in the Earth's troposphere ionosphere and magnetosphere and their effects on planetary climate and habitability Supplemented by online teaching materials it can be used as a textbook for courses or as a foundational reference for researchers in fields from astrophysics and plasma physics to planetary and climate science

Astroparticle Physics - Proceedings Of The International School Dimitri V Nanopoulos, 1991-11-15 The interface between particle physics and cosmology known as astroparticle physics can play a key role in our understanding of the universe This international school cosponsored by the Houston Advanced Research Center HARC and the Superconducting Super Collider Laboratory SSC was proposed as an effort to coordinate the explosion in knowledge and attract researchers to this fascinating discipline

**Literature 1992, Part 1** Astronomisches Recheninstitut, 2013-11-11 Astronomy and Astrophysics Abstracts appearing twice a year has become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world

**Physics of Collisionless Shocks** André Balogh, Rudolf A. Treumann, 2013-01-04 The present book provides a contemporary systematic treatment of shock waves in high temperature collisionless plasmas as are encountered in near Earth space and in Astrophysics It consists of two parts Part I develops the complete theory of shocks in dilute hot plasmas under the assumption of absence of collisions among the charged particles when the interaction is mediated solely by the self consistent electromagnetic fields Such shocks are naturally magnetised implying that the magnetic field plays an important role in their evolution and dynamics This part treats subcritical shocks which dissipate flow energy by generating anomalous resistance or viscosity The main emphasis is however on super critical shocks where the anomalous dissipation is insufficient to retard the upstream flow These shocks depending on the direction

of the upstream magnetic field are distinguished as quasi perpendicular and quasi parallel shocks which exhibit different behaviours reflecting particles back upstream and generating high electromagnetic wave intensities Particle acceleration and turbulence at such shocks become possible and important Part II treats planetary bow shocks and the famous Heliospheric Termination shock as examples of two applications of the theory developed in part I

25th International Cosmic Ray Conference, Vol 8 M S Potgieter, B C Raubenheimer, D J Van Der Walt, 1998-06-17 The 25th International Cosmic Ray Conference marked the golden jubilee of this series of conferences Held under the auspices of the IUPAP Commission C4 it was hosted by the Space Research Unit of the Department of Physics of the Potchefstroom University for Christian Higher Education The proceedings present the newest developments and highlights of cosmic ray production and propagation the extragalactic realm now being explored using neutrino and gamma ray astronomy These fields are strongly related to high energy physics

Space Physics C. T. Russell, J. G. Luhmann, R. J. Strangeway, 2016-07-07 This textbook derived from courses given by three leading researchers provides advanced undergraduates and graduates with up to date coverage of space physics from the Sun to the interstellar medium Clear explanations of the underlying physical processes are presented alongside major new discoveries and knowledge gained from space missions ground based observations theory and modelling to inspire students Building from the basics to more complex ideas the book contains enough material for a two semester course but the authors also provide suggestions for how the material can be tailored to fit a single semester End of chapter problems reinforce concepts and include computer based exercises specially developed for this textbook package Free access to the software is available via the book's website and enables students to model the behavior of magnetospheric and solar plasma An extensive glossary recaps new terms and carefully selected further reading sections encourage students to explore advanced topics of interest

**Los Alamos Science and Technology Magazine**, 2009 *Heliophysical Processes* Natchimuthuk Gopalswamy, S.S. Hasan, Ashok Ambastha, 2010-03-20 An outgrowth of the first Asia Pacific Regional School on the International Heliophysical Year IHY this volume contains a collection of review articles describing the universal physical processes in the heliospace influenced by solar electromagnetic and mass emissions The Sun affects the heliosphere in the short term space weather and in the long term space climate through numerous physical processes that exhibit similarities in various spatial domains of the heliosphere The articles take into account various aspects of the Sun heliosphere connection under a systems approach This volume will serve as a ready reference work for research in the emerging field of heliophysics which describes the physical processes taking place in the physical space controlled by the Sun out to the local interstellar medium

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