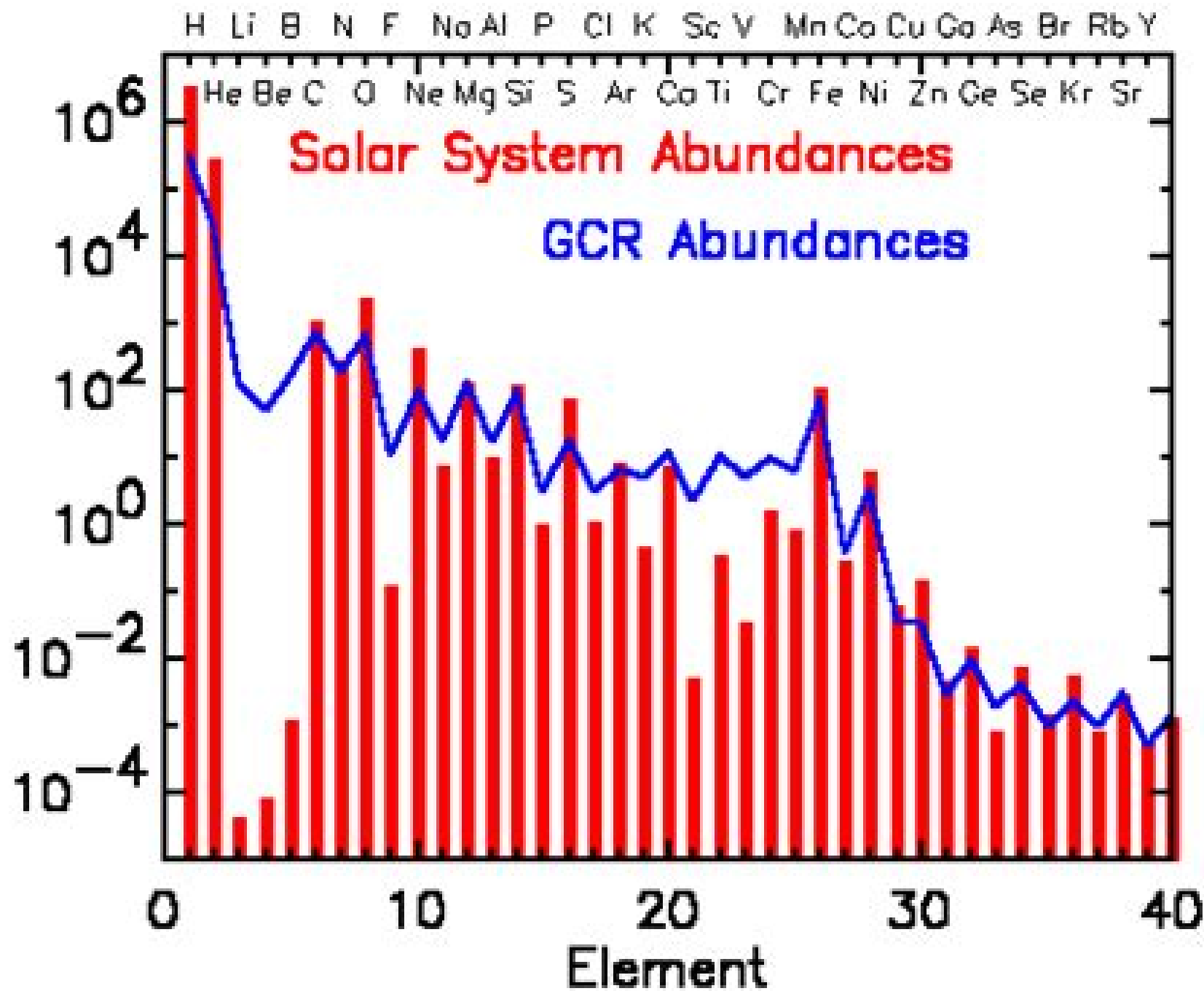


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Solar And Galactic Composition

Toshitaka Kajino

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The Composition of Matter R. von Steiger, G. Gloeckler, G.M. Mason, 2007-10-05 we thank Johannes for providing us with the occasion to gather in his name and for shaping and supporting the careers of so many of us May 2007 R von Steiger G Gloeckler G M Mason Space Sci Rev 2007 130 3 4 DOI 10 1007 s11214 007 9240 0 Acknowledgement Published online 21 July 2007 Springer Science Business Media B V 2007 Early in 2006 Edward C Stone Principal Investigator of NASA s Advanced Composition Explorer ACE Len A Fisk Chair of the Space Studies Board of the US National Research Council and the Directorate of the International Space Science Institute ISSI Roger M Bonnet Andre Balogh and Rudolf von Steiger agreed to hold a joint ACE ISSI Symposium on the Composition of Matter at the occasion of my 80th birthday I feel deeply honoured by this exceptional distinction and was thrilled to participate because for more than 50 years my research has been centred around measurements of the composition of matter of various origins reaching in geocentric coordinates from deep sea sediments to the limits of solar influence where comets come from and where the solar wind meets the interstellar medium The symposium at Grindelwald beautifully located at the foot of the Bernese Alps was organised by Ruedi von Steiger Silvia Wenger and Barbara Gerber who created the special atmosphere for which ISSI meetings have become known

Solar System History from Isotopic Signatures of Volatile Elements R. Kallenbach, Thérèse Encrenaz, Johannes Geiss, Konrad Mauersberger, Tobias Owen, François Robert, 2012-12-06 Proceedings of an ISSI Workshop 14 18 January 2002 Bern Switzerland

The Astrophysics of Galactic Cosmic Rays Roland Diehl, Etienne Parizot, R. Kallenbach, Rudolf von Steiger, 2013-04-17 R DIEHL R KALLENBACH E PARIZOT and R VON STEIGER The Astrophysics of Galactic Cosmic Rays 3 I KEY OBSERVATIONS ON GALACTIC COSMIC RAYS M E WIEDENBECK N E YANASAK A C CUMMINGS AJ DAVIS I S GEORGE R A LESKE R A MEWALDT E C STONE P L HINK M H ISRAEL M LIJOWSKI E R CHRISTIAN and TT VON ROSENVINGE The Origin of Primary Cosmic Rays Constraints from ACE Elemental and Isotopic Composition Observations 15 R A MEWALDT N E YANASAK M E WIEDENBECK AJ DAVIS W R BINNS E R CHRISTIAN A C CUMMINGS P L HINK R A LESKE S M NIEBUR E C STONE and TT VON ROSENVINGE Radioactive Clocks and Cosmic Ray Transport in the Galaxy 27 J J CONNELL Cosmic Ray Composition as Observed by Ulysses 41 R RAMATY R E LINGENFELTER and B KOZLOVSKY Spallogenic Light Elements and Cosmic Ray Origin 51 E PARIZOT Galactic Cosmic Rays and the Light Elements 61 G MEYNET M ARNOULD G PAULUS and A MAEDER Wolf Rayet Star Nucleosynthesis and the Isotopic Composition of the Galactic Cosmic Rays 73 S P SWORDY The Energy Spectra and Anisotropies of Cosmic Rays 85 G TARLE and M SCHUBNELL Antiparticles 95 D MULLER Cosmic Rays Beyond the Knee 105 II LESSONS FROM THE HELIOSPHERE G M MASON Heliospheric Lessons for Galactic Cosmic Ray Acceleration 119 R A

Meteorites and the Early Solar System II Dante S. Lauretta, Harry Y. McSween, 2006-07 They range in size from microscopic particles to masses of many tons The geologic diversity of asteroids and other rocky bodies of the solar system are displayed in the enormous variety of textures

and mineralogies observed in meteorites The composition chemistry and mineralogy of primitive meteorites collectively provide evidence for a wide variety of chemical and physical processes This book synthesizes our current understanding of the early solar system summarizing information about processes that occurred before its formation It will be valuable as a textbook for graduate education in planetary science and as a reference for meteoriticists and researchers in allied fields worldwide

The Genesis Mission C.T. Russell, 2011-06-27 NASA's Genesis mission launched on August 8 2001 is the fifth mission in the Discovery series Genesis addresses questions about the materials and processes involved in the origin of the solar system by providing precise knowledge of solar isotopic and elemental compositions for comparison with the compositions of meteoritic and planetary materials This book describes the Genesis mission the solar wind collector materials the solar wind concentrator and simulations of its performance the plasma ion and electron instruments and the way these two instruments are used to determine the solar wind flow regime on board the spacecraft The book is of interest to all potential users of the data returned by the Genesis mission to those studying the isotopic and chemical composition of the early solar system whose work will be influenced by the measurements made by Genesis and by all those interested in the design and implementation of space instruments to study space plasmas

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

The Advanced Composition Explorer Mission C.T. Russell, R.A. Mewaldt, T.T. von Rosenvinge, 2012-12-06 NASA's Advanced Composition Explorer ACE was launched on August 25 1997 carrying six high resolution spectrometers that measure the abundances of the elements isotopes and ionic charge states of energetic nuclei in space Data from these instruments is being used to measure and compare the composition of the solar corona the nearby interstellar medium and cosmic ray sources in the Galaxy and to study particle acceleration processes in a variety of environments ACE also includes three instruments that monitor solar wind and energetic particle activity near the inner Lagrangian point 1.5 million kilometers sunward of Earth and provide continuous real time data to NOAA for use in forecasting space weather Eleven of the articles in this volume review scientific progress and outline questions that ACE will address in solar space plasma and cosmic ray physics Other articles describe the ACE spacecraft the real time solar wind system and the instruments used to measure energetic particle composition

Research and Technology Objectives and Plans Summary , A compilation of the

summary portions of each of the RTOPs used for management review and control of research currently in progress throughout NASA P i *Noble Gases* Donald P. Porcelli, Chris J. Ballentine, Rainer Wieler, 2018-12-17 Volume 47 of Reviews in Mineralogy and Geochemistry introduces to Noble Gases Although the mass spectrometry principles are not complex the tricks involved in getting better data are often self taught or passed on by working with individuals who themselves are pushing the boundaries further Furthermore much of the exciting new science is linked with technical developments that allow us to move beyond the current measurement capabilities Be they better crushing devices laser resonance time of flight multiple collection or compressor sources the technical issues are central to progress Contents Noble Gases Noble Science An Overview of Noble Gas Geochemistry and Cosmochemistry Noble Gases in the Solar System Noble Gases in the Moon and Meteorites Radiogenic Components and Early Volatile Chronologies Cosmic Ray Produced Noble Gases in Meteorites Martian Noble Gases Origin of Noble Gases in the Terrestrial Planets Noble Gas Isotope Geochemistry of Mid Ocean Ridge and Ocean Island Basalts Characterization of Mantle Source Reservoirs Noble Gases and Volatile Recycling at Subduction Zones The Storage and Transport of Noble Gases in the Subcontinental Lithosphere Models for the Distribution of Terrestrial Noble Gases and the Evolution of the Atmosphere Production Release and Transport of Noble Gases in the Continental Crust Tracing Fluid Origin Transport and Interaction in the Crust Noble Gases in Lakes and Ground Waters Noble Gases in Ocean Waters and Sediments Cosmic Ray Produced Noble Gases in Terrestrial Rocks Dating Tools for Surface Processes K Ar and Ar Ar Dating U Th He Dating Techniques Calibrations and Applications **Cosmochemistry** Harry McSween, Jr, Gary Huss, 2022-03-03 Cosmochemistry is a rapidly evolving field of planetary science and the second edition of this classic text reflects the exciting discoveries made over the past decade from new spacecraft missions Topics covered include the synthesis of elements in stars behaviour of elements and isotopes in the early solar nebula and planetary bodies and compositions of extra terrestrial materials Radioisotope chronology of the early Solar System is also discussed as well as geochemical exploration of planets by spacecraft and cosmochemical constraints on the formation of solar systems Thoroughly updated throughout this new edition features significantly expanded coverage of chemical fractionation and isotopic analyses focus boxes covering basic definitions and essential background material on mineralogy organic chemistry and quantitative topics and a comprehensive glossary An appendix of analytical techniques and end of chapter review questions with solutions available at www.cambridge.org/cosmochemistry2e also contribute to making this the ideal teaching resource for courses on the Solar System s composition as well as a valuable reference for early career researchers

Nuclear Science Abstracts ,1976-02 **Literature 1980, Part 1** Siegfried Böhme, Ute Esser, Professor Dr. Walter Fricke, Inge Heinrich, Wilfried Hofmann, Dietlinde Krahn, Dorothea Rosa, Dr. Lutz D. Schmadel, Gert Zech, 2013-11-11 Astronomy and Astrophysics Abstracts which has appeared in semi annual volumes since 1969 is devoted to the recording summarizing and indexing of astronomical publications throughout the world It is prepared under the auspices of the

International Astronomical Union according to a resolution adopted at the 14th General Assembly in 1970 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months This time interval is near to that achieved by monthly abstracting journals compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user I 1980 some older Volume 27 contains literature published in 1980 and received before August literature which was received late and which is not recorded in earlier volumes is also included We acknowledge with thanks contributions to this volume by Dr J Bouska Prague who surveyed journals and publications in Czech and supplied us with abstracts in English

Neutrinos and Explosive Events in the Universe Maurice M. Shapiro, Todor Stanev, John P. Wefel, 2006-01-26 Neutrinos and Explosive Events in the Universe brought together experts from diverse disciplines to offer a detailed view of the exciting new work in this part of High Energy Astrophysics Sponsored by NATO as an Advanced Study Institute and coordinated under the auspices of the International School of Cosmic Ray Astrophysics 14th biennial course the ASI featured a full program of lectures and discussion in the ambiance of the Ettore Majorana Centre in Erice Italy including visits to the local Dirac and Chalonge museum collections as well as a view of the cultural heritage of southern Sicily Enri ment presentations on results from the Spitzer Infrared Space Telescope and the Origin of Complexity complemented the program This course was the best attended in the almost 30 year history of the School with 121 participants from 22 countries The program provided a rich ex rience both introductory and advanced to fascinating areas of observational Astrophysics Neutrino Astronomy High Energy Gamma Ray Astronomy P ticle Astrophysics and the objects most likely responsible for the signals plosions and related phenomena ranging from Supernovae to Black Holes to the Big Bang Contained in this NATO Science Series volume is a summative formulation of the physics and astrophysics of this newly emerging research area that already has been and will continue to be an important contributor to understanding our high energy universe

Solar and Galactic Composition Robert F. Wimmer-Schweingruber, 2001-12-07 Measurements of the composition of various bodies and particles in the solar system and the galaxy give us a remarkably accurate understanding of how the galaxy or the solar system formed This workshop joined the various communities concerned with the composition of the Sun and its surroundings It united workers from two very active space missions the Solar and Heliospheric Observatory SOHO and the Advanced Composition Explorer ACE It was not limited to scientists analyzing and interpreting data gathered with instruments on these two spacecraft but was open to the wider community Topics include solar and solar system abundances coronal and solar wind composition energetic particle composition galactic composition fractionation acceleration and transport processes as well as applications and constraints on cosmochemistry

Cosmic Chemistry Gerhard Klare, 2012-12-06 The annual meeting of the Astronomische Gesellschaft in Cologne June 1988 featured extensive

reviews of the chemical processes relevant to astrophysics The twelve contributions to this book written by experts from the US UK France Belgium Switzerland and Germany deal in depth with the chemistry of comets and meteorites of stars and their shells of the interstellar medium and galaxies A comprehensive review of nucleosynthesis and two reports on observations round off an up to date presentation of cosmic chemistry

To the Edge of the Solar System and Beyond I. H. Cairns, Giancarlo Genta, Klaus Scherer, 2004

High-Redshift Galaxies Immo Appenzeller, 2009-06-17 The high redshift galaxies became a distinct research field during the final decade of the 20th century At that time the Lyman break technique made it possible to identify significant samples of such objects and the new generation of 8 to 10 m telescopes resulted in the first good spectroscopic data Today the high redshift galaxies have developed into one of the important topics of astrophysics accounting for about 5-10% of the publications in the major scientific journals devoted to astronomy Because high redshift galaxies is a rapidly developing field and since new results are published constantly writing a book on this topic is challenging On the other hand in view of the large amount of individual results now in the literature and in view of the still growing interest in this topic it appears worthwhile to summarize and evaluate the available data and to provide an introduction for those who wish to enter this field or who for various reasons might be interested in its results The end of the first decade of the 21st century appears to be a good point in time to attempt such a summary The current generation of ground based 8 to 10 m optical telescopes the Hubble Space Telescope and the most important large radio telescopes have by now been in operation since about one or two decades Although these instruments will continue to produce important scientific results for some time to come many of the initial programs exploiting their unique new possibilities have been completed

Origin of Matter & Evolution of Galaxies 2000 Toshitaka Kajino, 2003 This book focuses on current topics in astronomy astrophysics and nuclear astrophysics The areas covered are origin of the universe and nucleosynthesis chemical and dynamical evolution of galaxies nova supernova and evolution of stars astrophysical nuclear reaction structure of nuclei with unstable nuclear beams origin of the heavy element and age of the universe neutron star and high density matter observation of elements high energy cosmic rays neutrino astrophysics

Oxygen in the Solar System Glenn J. MacPherson, 2018-12-17 Volume 68 of Reviews in Mineralogy and Geochemistry reviews Oxygen in the Solar System an element that is so critically important in so many ways to planetary science The book is based on three open workshops Oxygen in the Terrestrial Planets held in Santa Fe NM July 20-23 2004 Oxygen in Asteroids and Meteorites held in Flagstaff AZ June 2-3 2005 and Oxygen in Earliest Solar System Materials and Processes and including the outer planets and comets held in Gatlinburg TN September 19-22 2005 As a consequence of the cross cutting approach the final book spans a wide range of fields relating to oxygen from the stellar nucleosynthesis of oxygen to its occurrence in the interstellar medium to the oxidation and isotopic record preserved in 4-56 Ga grains formed at the Solar System's birth to its abundance and speciation in planets large and small to its role in the petrologic and physical evolution of the terrestrial planets Contents

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Encyclopedia of Astronomy & Astrophysics P Murdin, 2001-01-01 In a unique collaboration Nature Publishing Group and Institute of Physics Publishing have published the most extensive and comprehensive reference work in astronomy and astrophysics This unique resource covers the entire field of astronomy and astrophysics and this online version includes the full text of over 2 750 articles plus sophisticated search and retrieval functionality and links to the primary literature The Encyclopaedia's authority is assured by editorial and advisory boards drawn from the world's foremost astronomers and astrophysicists This first class resource is an essential source of information for undergraduates graduate students researchers and seasoned professionals as well as for committed amateurs librarians and lay people wishing to consult the definitive astronomy and astrophysics reference work

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