

Presolar Stardust In The Solar System: Recent Advances for Nuclear Astrophysics

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Grains of presolar stardust are identified in extraterrestrial materials on the basis of highly anomalous isotopic compositions. These compositions reflect those of the stellar gases from which they condensed more than 4.5 billion years ago and serve as detailed probes of nuclear processes in space including Galactic chemical evolution, nucleosynthesis and mixing processes in stars. A large number of presolar phases have now been identified, including various oxides, silicates, carbides and elemental carbon, with apparent origins in red giants, asymptotic giant branch stars, supernovae and perhaps novae. This paper provides some illustrative examples of how presolar stardust provides new insights for nuclear astrophysics.

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Advances In Nuclear Astrophysics

**Rosario G. Pizzone, Claus Rolfs, Claudi
Spitaleri**

Advances In Nuclear Astrophysics:

Advances in Nuclear Astrophysics E. VANGIONI-FLAM (Ed),1986 *Advances in nuclear astrophysics : proceedings of the second IAP Workshop, July 7-11, 1986, Paris ,1986* **Nuclei in the Cosmos XV** Alba Formicola,Matthias Junker,Lucio Gialanella,Gianluca Imbriani,2019-08-19 These peer reviewed NIC XV conference proceedings present the latest major advances in nuclear physics astrophysics astronomy cosmochemistry and neutrino physics which provide the necessary framework for a microscopic understanding of astrophysical processes The book also discusses future directions and perspectives in the various fields of nuclear astrophysics research In addition it also includes a limited number of section of more general interest on double beta decay and dark matter *Modern Problems in Nuclear and Neutrino Astrophysics* Arak M. Mathai,Hans J. Haubold,2025-12-24 This open access book explores the fundamental workings of the Sun unraveling the mysteries of solar structure neutrino emissions and the profound interplay between solar physics nuclear reactions and neutrino properties Dive into the intricate world of nuclear and neutrino astrophysics with this book Beginning with the renowned solar neutrino problem the authors recount the historical journey that commenced in 1968 with experiments aiming to detect solar neutrinos These pioneering efforts unveiled a significant discordance between predicted solar neutrino fluxes and actual measurements a puzzle that persisted until its resolution in 2002 The authors immersed in this quest since 1974 undertook a multifaceted approach refining theories in solar physics nuclear physics and neutrino science Central to their investigation were analytic mathematical methods particularly the application of special functions in mathematical physics The narrative unfolds with a meticulous exploration of solar model construction presenting simplified models that capture the Sun s complexity Notably the authors provide closed form representations of nuclear reaction rates a critical cornerstone in understanding stellar energy generation and neutrino production Moreover the book showcases advanced techniques for analyzing solar neutrino data offering invaluable insights into the intricate dance of particles within the solar core For researchers captivated by the enigmatic realm of astrophysical phenomena this book serves as an indispensable guide It encapsulates decades of rigorous research and intellectual pursuit presenting a comprehensive synthesis of theoretical advancements and empirical findings in nuclear and neutrino astrophysics Whether delving into solar dynamics nuclear processes or neutrino behavior readers will find themselves enriched by the authors profound contributions and analytical acumen **An Introduction to Nuclear Astrophysics** Richard N. Boyd,2007 Nuclear astrophysics background The instruments used to study astrophysics Nuclear basics of nuclear astrophysics Stellar basics of nuclear astrophysics Hydrogen burning Advanced stellar evolution supernovae and gamma ray bursters Production of the abundant heavy nuclides Nucleosynthesis on the proton rich side of stability X ray bursts and magnetars The beginning of the universe **Advances In Nuclear Physics - Proceedings Of The International Symposium** Dorin Poenaru,Sabin Stoica,2000-06-27 The interest in understanding the physical world that we live in the origin of its formation and evolution is

reflected in the world wide activities in Europe the USA and Japan to set up powerful research facilities providing beams of radioactive nuclei of various kinds and beams of extremely large energies At the same time complex and large detector arrays with improved technical capabilities are built either around these facilities or independently dedicated to cosmic rays Recently spectacular progress has been made in superheavy nuclei cold binary and ternary fission nuclear shell structure and nuclear astrophysics to mention only a few directions The energy spectrum of cosmic rays exceeds the upper limits provided by artificial accelerators An international collaboration has committed itself to the installation of an extremely large area detector array AUGER in order to study the highest particle energies in the Universe Literature 1987, Part 1 S. Böhme,U. Esser,H. Hefele,I. Heinrich,W. Hofmann,D. Krahn,V. R. Matas,L. D. Schmadel,G. Zech,2013-11-11 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of the literature concerning all aspects of astronomy astrophysics and their border fields It is devoted to the recording summarizing and indexing of the relevant publications throughout the world Astronomy and Astrophysics Abstracts is prepared by a special department of the Astronomisches Rechen Institut under the auspices of the International Astronomical Union Volume 43 records literature published in 1987 and received before August 15 1987 Some older documents which we received late and which are not surveyed in earlier volumes are included too We acknowledge with thanks contributions of our colleagues all over the world We also express our gratitude to all organizations observatories and publishers which provide us with complimentary copies of their publications Starting with Volume 33 all the recording correction and data processing work was done by means of computers The recording was done by our technical staff members Ms Helga Ballmann Ms Beate Gobel Ms Monika Kohl Ms Sylvia Matyssek Ms Doris Schmitz Braunstein Ms Utta Barbara Stegemann Mr Jochen Heidt and Mr Kristopher Polzine supported our task by careful proof reading It is a pleasure to thank them all for their encouragement Heidelberg October 1987 The Editors Contents Introduction 1 Concordance Relation PHYS AAA 3 Abbreviations 5 Periodicals Proceedings Books Activities 001 Periodicals 10 002 Bibliographical Publications Documentation Catalogues Data Bases 50 003 Books Advances in Nuclear Physics Dorin N. Poenaru,Sabin Stoica,2000 The interest in understanding the physical world that we live in the origin of its formation and evolution is reflected in the world wide activities in Europe the USA and Japan to set up powerful research facilities providing beams of radioactive nuclei of various kinds and beams of extremely large energies At the same time complex and large detector arrays with improved technical capabilities are built either around these facilities or independently dedicated to cosmic rays Recently spectacular progress has been made in superheavy nuclei cold binary and ternary fission nuclear shell structure and nuclear astrophysics to mention only a few directions The energy spectrum of cosmic rays exceeds the upper limits provided by artificial accelerators An international collaboration has committed itself to the installation of an extremely large area detector array AUGER in order to study the highest particle energies in the Universe Astrophysics with Radioactive Isotopes Roland Diehl,Dieter H. Hartmann,Nikos Prantzos,2018-10-11 Dealing

with astrophysics derived from the radiation emitted by radioactive atomic nuclei this book describes the different methods used to measure cosmic radio isotopes It demonstrates how this astronomical window has contributed to the understanding of the sources and the chemical evolution of cosmic gas Reference materials and explanations are included for students in advanced stages of their education Nuclear reactions in different sites across the universe lead to the production of stable and unstable nuclei Their abundances can be measured through different methods allowing to study the various nuclear processes taking place in cosmic environments Nucleosynthesis is the cosmic formation of new nuclear species starting from hydrogen and helium resulting from the big bang origins Stars create and eject synthesized nuclei during their evolution and explosions Incorporation of the new interstellar composition into next generation stars characterises the compositional chemical evolution of cosmic gas in and between galaxies Radioactive species have unique messages about how this occurs Since the first Edition of this book published in 2011 with the title Astronomy with Radioactivities long awaited new direct observations of supernova radioactivity have been made and are now addressed in two updated chapters dealing with supernovae In this second Edition the advances of recent years beyond one dimensional treatments of stellar structure and stellar explosions towards 3 dimensional models have been included and led to significant re writings in Chapters 3 5 The sections on the Solar System origins have been re written to account for new insights into the evolution of giant molecular clouds The chapter on diffuse radioactivities now also includes material measurements of radioactivities in the current solar system and their interpretations for recent nucleosynthesis activity in our Galaxy Significant new results on gamma rays from positron annihilations have been accounted for in that chapter and led to new links with nucleosynthesis sources as well as interstellar transport processes A new chapter now provides a description of interstellar processes often called chemical evolution thus linking the creation of new nuclei to their abundance observations in gas and stars The experimental instrumental chapters on nuclear reaction measurements on gamma ray telescopes and pre solar grain laboratories have been updated Moreover new windows of astronomy that have been opened up in recent years have been included in the discussions of the multi messenger approach that broadens the basis for astrophysical insights

Nuclear Astrophysics

Wolfgang Hillebrandt, Rudolf Kuhfuß, Ewald Müller, 1987-09-23 The recent discovery of a type II supernova in the Large Magellanic Cloud provides a rare chance to compare models of stellar evolution and nucleosynthesis directly with observations This workshop covers thermonuclear reaction rates in chaos experimental and theoretical stellar evolution nucleosynthesis and isotopic anomalies in meteorites and in a final section the supernovae in particular SN 1987A It brings the most interesting news in the rapidly developing field of nuclear astrophysics to researchers and also to graduate students Recent and future developments are discussed Special emphasis is placed on experimental and theoretical approaches to obtaining nuclear reaction rates models of stellar evolution and explosions and theories of nucleosynthesis Various aspects of stellar evolution nucleosynthesis and thermonuclear reactions of astrophysical interest are reviewed Several contributions

deal with supernova explosions of massive stars and in particular with Supernova 1987A and its impact on current models of the evolution of massive stars the gravitational collapse of stellar cores and neutrino physics and astronomy

Advances In Very High Energy Astrophysics: The Science Program Of The Third Generation Iacts For Exploring Cosmic Gamma Rays Reshmi Mukherjee, Roberta Zanin, 2024-09-03 Very high energy astrophysics studies the most energetic photons in the sky allowing the exploration of violent and extreme non thermal phenomena in the Universe Significant advances in knowledge have been made in this field using ground based imaging atmospheric Cherenkov telescopes IACTs as detectors to study these physical processes in the Universe This book reviews the progress in the field since the advent of the second generation IACTs around 2004 Going through the scientific highlights obtained by the three current instruments of this kind H E S S MAGIC and VERITAS operating now for more than 15 years this book presents a state of the art knowledge in four areas of modern astrophysics and cosmology namely the origin of the cosmic rays the physics of compact objects and their resulting relativistic outflows gamma ray cosmology and the search for dark matter Along with a detailed review of the outstanding scientific outcomes a summary of the key technological developments that yielded the recognized success of the technique is also provided This book is written for early career academics in the fields of astrophysics high energy physics and cosmology At the same time it can serve as a source of reference for the expert in the field

International Aerospace Abstracts ,1996

Nuclear Physics of Stars Christian Iliadis, 2015-03-19 Most elements are synthesized or cooked by thermonuclear reactions in stars The newly formed elements are released into the interstellar medium during a star s lifetime and are subsequently incorporated into a new generation of stars into the planets that form around the stars and into the life forms that originate on the planets Moreover the energy we depend on for life originates from nuclear reactions that occur at the center of the Sun Synthesis of the elements and nuclear energy production in stars are the topics of nuclear astrophysics which is the subject of this book It presents nuclear structure and reactions thermonuclear reaction rates experimental nuclear methods and nucleosynthesis in detail These topics are discussed in a coherent way enabling the reader to grasp their interconnections intuitively The book serves both as a textbook for advanced undergraduate and graduate students with worked examples and end of chapter exercises but also as a reference book for use by researchers working in the field of nuclear astrophysics

Physics Briefs ,1993

From the Big Bang to the Nucleosynthesis A. Bracco, E. Nappi, 2012-01-11 Physicists have devoted much effort to reproducing the conditions of the primordial universe in laboratory conditions in their quest to work out a comprehensive theory of the appearance and evolution of nuclear matter Whether it be trying to recreate the predicted primordial state of high energy density matter in which quarks and gluons are effectively deconfined the so called Quark Gluon Plasma QGP or exploring the structure and reaction properties of very unstable nuclei in experiments using radioactive beams they have striven to understand the events which characterized the Big Bang and the various nucleosynthesis mechanisms which occur in the stars This book contains the proceedings of the

2010 Enrico Fermi summer school held in Varenna Italy in July 2010 and devoted to the present understanding of the primordial universe and the origin of the elements as achieved by studying nuclei and their constituents in extreme regimes of energy and composition Subjects covered include QGP formation exotic nuclei their degrees of freedom from the ground state and the properties of the excited states the complex but appealing theory describing the supernovae explosion and neutron stars dark energy and matter Big Bang nucleosynthesis and energy and solar neutrino production nuclear cosmochronology beta and gamma decay relevant for the nucleosynthesis of heavy nuclei The annual Enrico Fermi summer school is internationally renowned and this book will be of great interest to all those involved in the field of nuclear physics

Scientific and Technical Aerospace Reports ,1994

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Fifth European Summer School on Experimental Nuclear Astrophysics Rosario G.

Pizzone,Claus Rolfs,Claudi Spitaleri,2010-03-31 Nuclear astrophysics plays a key role for understanding energy production in stars stellar evolution and the concurrent synthesis of the chemical elements and their isotopes The bone structure for the above aspects is based on nuclear reactions whose rates need to be determined in laboratories Although impressive progress has been made over the past decades several open questions are still unsolved which challenge the basis of the present understanding Proceedings of the International Symposium on Advances in Nuclear Physics D. N. Poenaru,2000

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