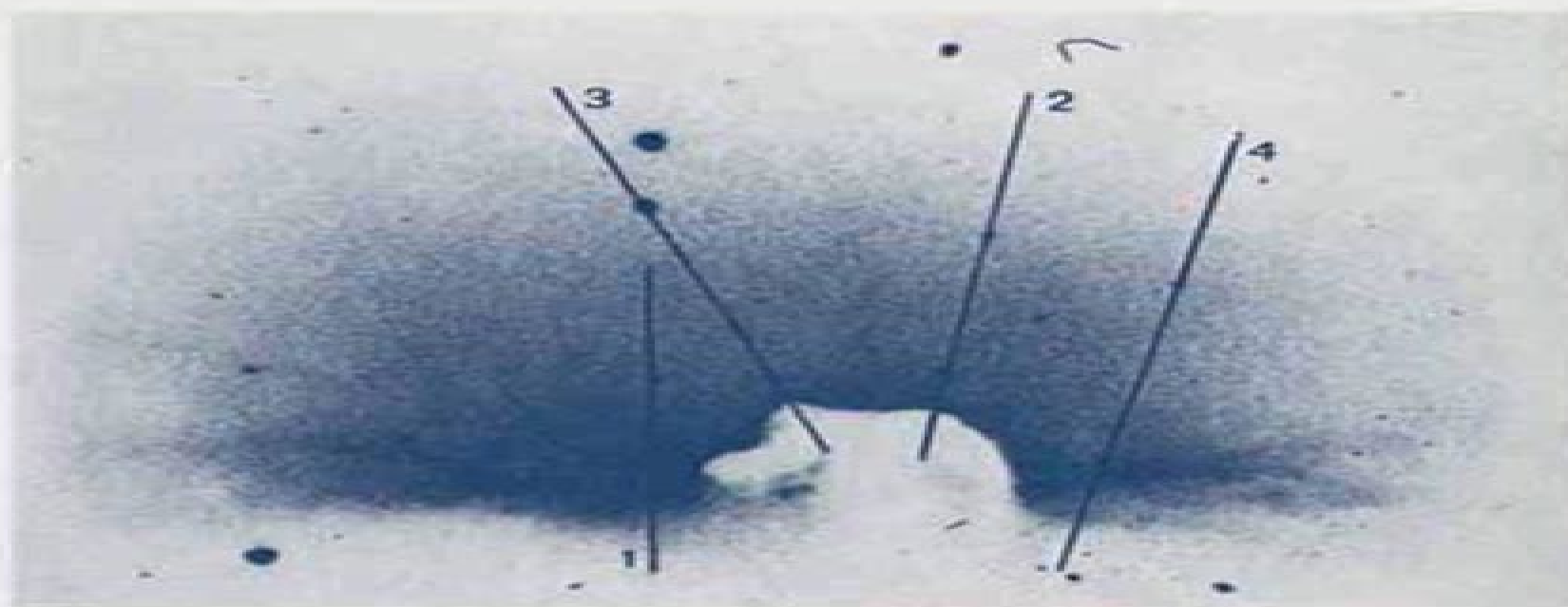


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INTERSTELLAR DUST AND RELATED TOPICS

Edited by J. M. GREENBERG and H. C. VAN DE HULST



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Interstellar Dust and Related Topics Jerome Mayo Greenberg, Hendrik Christofel van de Hulst, 1973 **Interstellar Dust and Related Topics** J. Mayo Greenberg, H. C. Van De Hulst, 2013-04-17 IAU Symposium Number 52 on Interstellar Dust and Related Topics was held at Albany N Y on the campus of the State University of New York at Albany from May 29 to June 2 1972 The members of the Organizing Committee were Dr A D Code University of Wisconsin Madison Wis U S A Dr B D Donn Goddard Space Flight Center Greenbelt Md U S A Dr A Elvius Stockholm Observatory Saltsjobaden Sweden Dr T Gehrels Lunar and Planetary Laboratory University of Arizona Tucson Ariz U S A Dr J M Greenberg Chairman State University of New York at Albany Albany N Y U S A Dr H C van de Hulst Sterrewacht Leiden Holland Dr S B Pikel ner Sternberg Astronomical Institute Moscow U S S R Dr E E Salpeter Cornell University Ithaca N Y U S A Dr B E Turner National Radio Astronomy Observatory Charlottesville Va U S A The suggestion was first made in 1971 that a symposium on interstellar grains would be timely The response to the first preliminary announcement which was sent out on November 29 1971 was well beyond our expectations The meeting was locally sponsored by the State University and by Dudley Observatory The National Aeronautics and Space Administration and the National Science Foundation contributed along with the IAU There were 158 participants of whom 49 were from 15 countries outside the United States A total of 92 papers were presented **Interstellar Dust and Related Topics** J. Mayo Greenberg, H. C. Van de Hulst, 1973 **Interstellar Dust and Related Topics- Papers Presented at a Symposium** International Astronomical Union, United States. National Aeronautics and Space Administration, National Science Foundation (U.S.), **Nuclear Science Abstracts** , 1975-05

Interstellar Dust and Related Topics J. Mayo Greenberg, H. C. Van De Hulst, 2013-01-22 IAU Symposium Number 52 on Interstellar Dust and Related Topics was held at Albany N Y on the campus of the State University of New York at Albany from May 29 to June 2 1972 The members of the Organizing Committee were Dr A D Code University of Wisconsin Madison Wis U S A Dr B D Donn Goddard Space Flight Center Greenbelt Md U S A Dr A Elvius Stockholm Observatory Saltsjobaden Sweden Dr T Gehrels Lunar and Planetary Laboratory University of Arizona Tucson Ariz U S A Dr J M Greenberg Chairman State University of New York at Albany Albany N Y U S A Dr H C van de Hulst Sterrewacht Leiden Holland Dr S B Pikel ner Sternberg Astronomical Institute Moscow U S S R Dr E E Salpeter Cornell University Ithaca N Y U S A Dr B E Turner National Radio Astronomy Observatory Charlottesville Va U S A The suggestion was first made in 1971 that a symposium on interstellar grains would be timely The response to the first preliminary announcement which was sent out on November 29 1971 was well beyond our expectations The meeting was locally sponsored by the State University and by Dudley Observatory The National Aeronautics and Space Administration and the National Science Foundation contributed along with the IAU There were 158 participants of whom 49 were from 15 countries outside the United States A total of 92 papers were presented Interstellar Dust and Related Topics J. Mayo Greenberg, H. C. Van De Hulst, 1973-12-01 IAU Symposium

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Formation and Evolution of Solids in Space J. Mayo Greenberg, Aigen Li, 2012-12-06

Interstellar dust meteorites interplanetary dust particles IDP s the zodiacal light comets comet dust Where do they come from what are they made of how do they evolve and finally are there connections between them These are the questions discussed in this volume by some of the world s outstanding experts in their respective fields The techniques used for studying the small solid objects of space are thoroughly discussed Some of the methods involve a synthetic approach using the laboratory to create analog environments and materials which are believed to resemble those in space Others use direct laboratory methods with state of the art analytical tools to study the material of the objects themselves meteorites IDP S And others apply the latest in astronomical facilities to provide quantitative data on the material properties of the solids which can only be deduced from remote observations These are compared with the laboratory results In one instance there was a possibility to study a solar system body in situ and that was the case of comet Halley and some of the results of these studies obtained from space laboratories launched to meet it are discussed here Finally there are theoretical papers which are aimed at bridging the results of observational and laboratory methods This book is recommended to senior scientists as well as graduate students who wish to pursue research in interstellar and solar system astronomy and their connections

The Chemistry of Life's Origins J. Mayo Greenberg, C.X. Mendoza-Gómez, Valerio Pirronello, 2012-12-06 This volume contains the lectures presented at the second course of the International School of Space Chemistry held in Erice Sicily from October 20 30 1991 at the E Majorana Centre for Scientific Culture The course was attended by 58 participants from 13 countries The Chemistry of Life's Origins is well recognized as one of the most critical subjects of modern chemistry Much progress has been made since the amazingly perceptive contributions by Oparin some 70 years ago when he first outlined a possible series of steps starting from simple molecules to basic building blocks and ultimate assembly into simple organisms capable of

replicating catalysis and evolution to higher organisms The pioneering experiments of Stanley Miller demonstrated already forty years ago how easy it could have been to form the amino acids which are critical to living organisms However we have since learned and are still learning a great deal more about the primitive conditions on earth which has led us to a rethinking of where and how the condition for prebiotic chemical processes occurred We have also learned a great deal more about the molecular basis for life For instance the existence of DNA was just discovered forty years ago Planets, Stars and Nebulae Studied with Photopolarimetry Tom Gehrels, 2018-01-30 The polarization study of celestial objects is a valuable part of optical astronomy and the author has done exceptionally well in bringing together contributions treating all aspects of the polarimetry field The first section contains a fine introduction and an excellent and definitive history of the subject The volume is well illustrated Highly recommended Choice The high quality of this book is clearly due to strict editorial attention to each paper and the discussions Gehrels's book will surely stand for many years as the fundamental reference source for polarization studies in astronomy as well as in atmospheric physics Journal of the Association of Lunar and Planetary Observers **Stellar Polarimetry** David Clarke, 2009-10-30 Written by an experienced teacher and author this must have source for work with polarimetric equipment and polarimetry in astronomy conveys the knowledge of the technology and techniques needed to measure and interpret polarizations As such this monograph offers a brief introduction and refresher while also covering in detail statistics and data treatment as well as telescope optics For astronomers physicists and those working in the optical industry Frontiers in Surface Science and Interface Science C.B. Duke, E. Ward Plummer, 2002-05-21 Any notion that surface science is all about semiconductors and coatings is laid to rest by this encyclopedic publication Bioengineered interfaces in medicine interstellar dust DNA computation conducting polymers the surfaces of atomic nuclei all are brought up to date Frontiers in Surface and Interface Science a milestone publication deserving a wide readership It combines a sweeping expert survey of research today with an educated look into the future It is a future that embraces surface phenomena on scales from the subatomic to the galactic as well as traditional topics like semiconductor design catalysis and surface processing modeling and characterization And great efforts have been made to express sophisticated ideas in an attractive and accessible way Nanotechnology surfaces for DNA computation polymer based electronics soft surfaces interstellar surface chemistry all feature in this comprehensive collection Chemistry in Space J. Mayo Greenberg, Valerio Pirronello, 2012-12-06 This volume contains the lectures presented at the first course of the International School of Space Chemistry held in Erice Sicily from May 10 to May 20 at the E Majorana Centre for Scientific Culture The course was attended by 57 participants from 11 countries The recognition by Professor A Zichichi that space chemistry is one of the important and rapidly growing scientific disciplines with many and varied applications provided the stimulation to initiate this new school Historically the study of chemistry in space had its major origins in comets the solar nebula and circumstellar envelopes before the interstellar medium achieved its current prominence A remarkably rapid

development in interstellar chemistry was precipitated by the discovery of formaldehyde in the late 1960 s made possible by the new radio observational techniques A four atom molecule in interstellar space was indeed a surprise considering that only a short time ear lier there were still arguments about the existence of the simplest of all molecules the hydrogen molecule The application of ion molecule reactions to interstellar cloud chemistry provided a rich variety of new possibilities which were however continuously under pressure to keep pace with radio astronomical discoveries of more and more complex molecules

Solid State Astrophysics N.C. Wickramasinghe,D.J. Morgan,2012-12-06 Over the past decade the study of the formation and properties of interstellar grains has assumed a growing importance going much beyond what might have been guessed only a few years ago It has come to be understood that grains playa role in processes other than the simple absorption and scattering of starlight which was all that the astronomers of a generation aga considered to be their relevance Grains indeed playa critical role in controlling the temperature composition and states of aggregation of the whole interstellar medium Among the still mysterious problems is the origin of the vast clouds of obscuring material that is observed in radiogalaxies like NGC 5128 and M 82 which may well be associated with the explosions of very massive objects It is safe to say that from this growing field of study much still remains to be dis covered The topics discussed in this volume will make clear to the reader the range and versatility of the subjects

F HOYLE FOREWORD by THE PRINCIPAL The Symposium on Solid State Astrophysics held in July 1974 brought to University College Cardiff a large and very distinguished gathering of astronomers It was the first time that such a collection of scholars absorbed with the problem of the systems of outer space had collected together in Wales and so provided a splendid spring board for the researches of the newly founded group of astronomers in the Department of Applied Mathematics and Astronomy at University College

Astronomical Origins of Life B. Hoyle,N.C. Wickramasinghe,2012-12-06 Living material contains about twenty different sorts of atom combined into a set of relatively simple molecules Astrobiologists tend to believe that abiotic mater ial will give rise to life in any place where these molecules exist in appreciable abundances and where physical conditions approximate to those occurring here on Earth We think this popular view is wrong for it is not the existence of the building blocks of life that is crucial but the exceedingly complicated structures in which they are arranged in living forms The probability of arriving at biologically significant arrangements is so very small that only by calling on the resources of the whole universe does there seem to be any possibility of life originating a conclusion that requires life on the Earth to be a minute component of a universal system Some think that the hugely improbable transition from non living to living mat ter can be achieved by dividing the transition into many small steps calling on a so called evolutionary process to bridge the small steps one by one This claim turns on semantic arguments which seek to replace the probability for the whole chain by the sum of the individual probabilities of the many steps instead of by their product This is an error well known to those bookies who are accustomed to taking bets on the stacking of horse races But we did not begin our investigation from this point of view

Solid State Astrochemistry Valerio Pirronello, Jacek Krelowski, Giulio Manicò, 2012-12-06 The fundamental role that Astrochemistry plays in regulating the processes that in interstellar clouds lead to the formation of stars and how these processes concur into affecting the shape and the dynamics of galaxies and hence into showing the Universe in the way it appears to us is well established Together with those occurring in the gas phase a special relevance is recognized to processes that involve interstellar dust grains the solid component of matter diffused among stars The school on Solid State Astrochemistry held at the Ettore Majorana Centre for Scientific Culture in Erice Sicily from the 5th to the 15th of June 2000 was the fifth course of the International School of Space Chemistry In spite of its very focused aim it was attended by 66 participants from 17 different countries that in the very special environment provided by the Majorana Centre discussed in great details the various aspects of the subject

Stars and the Milky Way System L. N. Mavridis, 2012-12-06
International Aerospace Abstracts, 1979 **Vindication Of Cosmic Biology: Tribute To Sir Fred Hoyle (1915-2001)** Nalin Chandra Wickramasinghe, 2015-05-28 In the year 2015 100 years after Fred Hoyle was born the ideas relating to the cosmic origins of life are slowly gaining credence in scientific circles Once regarded as outrageous heresy evidence from a variety of disciplines astronomy geology biology is converging to support these once heretical ideas This volume opens with recent review articles pointing incontrovertibly towards our cosmic heritage followed by a collection of published articles tracing the development of the theory throughout the years The discovery that microorganisms bacteria and viruses are incredibly resistant to the harshest conditions of space along with the detection of an estimated 144 billion habitable planets around other star systems in our galaxy alone makes it virtually impossible to maintain that life on one planet will not interact with life elsewhere The emerging position is that life arose exceedingly rarely possibly only once in the history of the cosmos but its subsequent spread was unstoppable Panspermiology can no longer be described as an eccentric doctrine but rather is the only doctrine supported by an overwhelming body of evidence Fred Hoyle's work in this area may in the fullness of time come to be regarded as his most important scientific contribution Polarimetry of Stars and Planetary Systems Ludmilla Kolokolova, 2015-05-14 A comprehensive review of state of the art techniques models and research methods in modern astronomical polarimetry

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