

Sun Kwok

The Origin and Evolution of Planetary Nebulae



Origin And Evolution Of Planetary Nebulae

Icko Iben



Origin And Evolution Of Planetary Nebulae:

The Origin and Evolution of Planetary Nebulae Sun Kwok, 2007-08-11 This authoritative volume presents a thoroughly modern understanding of planetary nebulae integrating new developments in stellar physics with the dynamics of nebular evolution It covers all the stages in the evolution of planetary nebulae carefully synthesizes observations from across the spectrum and clearly explains all the key physical processes at work Particular emphasis is placed on recent observations from space using the Hubble Space Telescope the Infrared Space Observatory and the ROSAT satellite Coverage also describes exciting possibilities such as the use of planetary nebulae in determining the cosmic distance scale the distribution of dark matter and the chemical evolution of galaxies This book provides graduate students with an accessible introduction to planetary nebulae and researchers with an authoritative reference It can also be used as an advanced textbook on the physics of the interstellar medium *The Physics and Dynamics of Planetary Nebulae* Grigor A. Gurzadyan, 2013-04-09

Planetary nebulae are the classic subject of astrophysics The physical processes occurring in this highly ionized gaseous medium the formation of emission lines in clearly specified conditions the continuous emission extending from the far ultraviolet up to infrared and radio frequencies the generation of exotic forms of radiation predicted by atomic physics along with methods for deciphering the observed spectra and detecting physical and kinematic parameters of the radiating medium etc all these problems form the solid foundations of the physical theory of gaseous nebulae They are an essential part of the arsenal of powerful tools and concepts without which one cannot imagine understanding and interpreting the enormous diversity of processes taking place in the Universe in gaseous envelopes surrounding the stars of various classes from cool dwarfs and flare stars up to hot supergiants as well as in stellar chromospheres and coronae in atmospheres of unstable and anomalous stars in circumstellar clouds and gaseous shells born in nova and supernova explosions in diffuse nebulae and the interstellar medium in interacting binary systems in galaxies with emission lines in quasars etc The last thirty years have seen a turning point in our knowledge concerning the very nature of planetary nebulae PNs The radio emission of PNs was discovered after it was predicted theoretically On the other hand the powerful infrared emission discovered both in the continuum and in emission lines was never expected **Planetary Nebulae** D.E. Osterbrock, C.R. O'Dell, 2012-12-06 This

written account of the Symposium on Planetary Nebulae was prepared from manuscripts submitted by the participants Nearly every paper that was presented at the meeting is reproduced here in either complete or abbreviated form The discussions have been somewhat shortened and rearranged but we have tried to preserve the essential points and the general tenor of the exchanges Participants who spoke in the discussion were asked immediately for written remarks which were then edited reproduced and circulated at the meeting by the highly effective local Secretariat organized by Dr Perek In addition notes of the discussion taken by Mrs Edith F Swan and by the undersigned were used We wish to thank all the authors for their unusually good cooperation We are especially grateful to Dr Minkowski who kindly provided many excellent

reproductions of Mount Wilson and Palomar photographs mostly taken by himself of various planetary nebulae We are particularly indebted to Mrs Swan who attended the Symposium made notes on the papers and discussions as they occurred and did much of the checking and editing of the manuscripts In addition we are very grateful to Mrs Evelyn Seaver who also did much of the checking editing and retyping of manuscripts and to Dr B L Webster Miss Rebecca Todd Mr Joseph Tapscott and Mr Dennis Schatz who provided excellent assistance in the preparation of this volume

Planetary Nebulae and Their Central Stars Icko Iben, 1995

Astronomy and Astrophysics Abstracts S. Böhme, U. Esser, H. Hefele, I. Heinrich, W. Hofmann, D. Krahn, V. R. Matas, L. D. Schmadel, G. Zech, 2013-12-14

From the reviews Astronomy and Astrophysics Abstracts has appeared in semi annual volumes since 1969 and it has already 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 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 Space Science Reviews 1 Dividing the whole field plus related subjects into 108 categories each work is numbered and most are accompanied by brief abstracts Fairly comprehensive cross referencing links relevant papers to more than one category and exhaustive author and subject indices are to be found at the back making the catalogues easy to use The series appears to be so complete in its coverage and always less than a year out of date that I shall certainly have to make a little more space on those shelves for future volumes The Observatory Magazine 1

Encyclopedia of Astrobiology Muriel Gargaud, William M. Irvine, Ricardo Amils, Philippe Claeys, Henderson James Cleaves, Maryvonne Gerin, Daniel Rouan, Tilman Spohn, Stéphane Tirard, Michel Viso, 2023-07-27

Now in its third edition the Encyclopedia of Astrobiology serves as the key to a common understanding in the extremely interdisciplinary community of astrobiologists Each new or experienced researcher and graduate student in adjacent fields of astrobiology will appreciate this reference work in the quest to understand the big picture The carefully selected group of active researchers contributing to this work are aiming to give a comprehensive international perspective on and to accelerate the interdisciplinary advance of astrobiology The interdisciplinary field of astrobiology constitutes a joint arena where provocative discoveries are coalescing concerning e g the prevalence of exoplanets the diversity and hardiness of life and its chances for emergence Biologists astrophysicists bio chemists geoscientists and space scientists share this exciting mission of revealing the origin and commonality of life in the Universe With its overview articles and its definitions the Encyclopedia of Astrobiology not only provides a common language and understanding for the members of the different disciplines but also serves for educating a new generation of young astrobiologists who are no longer separated by the jargon of individual scientific disciplines This new edition offers 170 new entries More than half of the existing entries were updated expanded or

supplemented with figures supporting the understanding of the text Especially in the fields of astrochemistry and terrestrial extremophiles but also in exoplanets and space sciences in general there is a huge body of new results that have been taken into account in this new edition Because the entries in the Encyclopedia are in alphabetical order without regard for scientific field this edition includes a section Astrobiology by Discipline which lists the entries by scientific field and subfield This should be particularly helpful to those enquiring about astrobiology as it illustrates the broad and detailed nature of the field

Astrophysics of the Interstellar Medium Walter J. Maciel, 2013-01-11 The space between the stars contains a large diversity of objects in which physical processes occur that are fundamental to the structure and evolution of galaxies This book offers the reader a basic knowledge of these processes and presents simple numeric estimates of the main quantities relevant to the interstellar medium The main objects that constitute the interstellar space are described but the emphasis of the book lies in the physical processes occurring in these objects which may also occur in other astrophysical environments The book is directed to graduate as well as advanced undergraduate students of physics and astrophysics

The Century of Space Science J.A. Bleeker, Johannes Geiss, M. Huber, 2012-12-06 One of the most attractive features of the young discipline of Space Science is that many of the original pioneers and key players involved are still available to describe their field Hence at this point in history we are in a unique position to gain first hand insight into the field and its development To this end The Century of Space Science a scholarly authoritative reference book presents a chapter by chapter retrospective of space science as studied in the 20th century The level is academic and focuses on key discoveries how these were arrived at their scientific consequences and how these discoveries advanced the thoughts of the key players involved With over 90 world class contributors such as James Van Allen Cornelis de Jager Eugene Parker Reimar Lüst and Ernst Stuhlinger and with a Foreword by Lodewijk Woltjer past ESO Director General this book will be immensely useful to readers in the fields of space science astronomy and the history of science Both academic institutions and researchers will find that this major reference work makes an invaluable addition to their collection

Nuclear Science Abstracts, 1976

Handbook of Astrobiology Vera M. Kolb, 2018-12-07 Choice Recommended Title August 2019 Read an exclusive interview with Professor Vera Kolb here Astrobiology is the study of the origin evolution distribution and future of life on Earth This exciting and significant field of research also investigates the potential existence and search for extra terrestrial life in the Solar System and beyond This is the first handbook in this burgeoning and interdisciplinary field Edited by Vera Kolb a highly respected astrobiologist this comprehensive resource captures the history and current state of the field Rich in information and easy to use it assumes basic knowledge and provides answers to questions from practitioners and specialists in the field as well as providing key references for further study Features Fills an important gap in the market providing a comprehensive overview of the field Edited by an authority in the subject with chapters written by experts in the many diverse areas that comprise astrobiology Contains in depth and broad coverage of an exciting field that will only grow in importance in the decades ahead

Scientific and Technical Aerospace Reports ,1992 **Literature 1991, Part 2** Astronomisches

Rechen-Institut,2013-06-29 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 **Titan from Cassini-Huygens** Robert Brown, Jean Pierre Lebreton, Hunter

Waite, 2009-10-13 This book is one of two volumes meant to capture to the extent practical the scientific legacy of the Cassini Huygens prime mission a landmark in the history of planetary exploration As the most ambitious and interdisciplinary planetary exploration mission ever to date it has extended our knowledge of the Saturn system to levels of detail at least an order of magnitude beyond that gained from all previous missions to Saturn Nestled in the brilliant light of the new and deep understanding of the Saturn planetary system is the shiny nugget that is the spectacularly successful collaboration of individuals organizations and governments in the achievement of Cassini Huygens In some ways the partnerships formed and lessons learned may be the most enduring legacy of Cassini Huygens The broad international coalition that is Cassini Huygens is now conducting the Cassini Equinox Mission and planning the Cassini Solstice Mission and in a major expansion of those fruitful efforts has extended the collaboration to the study of new flagship missions to both Jupiter and Saturn Such ventures have and will continue to enrich us all and evoke a very optimistic vision of the future of international collaboration in planetary exploration **The Analysis of Starlight** John B. Hearnshaw, 2014-03-17 First published in 1986 this is the

story of the analysis of starlight by astronomical spectroscopy Beginning with Joseph Fraunhofer's discovery of spectral lines in the early nineteenth century this new edition continues the story through to the year 2000 In addition to the key discoveries it presents the cultural and social history of stellar astrophysics by introducing the leading astronomers and their struggles triumphs and disagreements Basic concepts in spectroscopy and spectral analysis are included so both observational and theoretical aspects are described in a non mathematical framework This new edition covers the final decades of the twentieth century with its major advances in stellar astrophysics the discovery of extrasolar planets new classes of stars and the observation of the ultraviolet spectra of stars from satellites The in depth coverage makes it essential reading for graduate students working in stellar spectroscopy professional and amateur astronomers and historians of science **Reports on Astronomy** Richard M. West, 2012-12-06 volume XIX A of IAU Transactions contains the reports by

Presidents of Commissions covering the period July 1981 June 1984 The topics of IAU Commissions deal with all of contemporary astronomy and the present volume therefore constitutes an exhaustive and unique record of astronomical research during this interval It is particularly useful for astronomers and other scientists who want to gain an overview of a

certain field not necessarily near their own research area Each Commission President was requested by early 1984 to begin preparations for the compilation of his/her Commission report All members of Commissions were asked to supply details about their individual research programmes The ensuing very substantial task of concatenating was undertaken in late 1984 by the Presidents often supported by a team of authors all recognized authorities in their fields In order to preserve some measure of uniformity which is in any case very difficult with so many authors editorial guidelines were sent to Presidents including the number of pages allotted to each Commission

Literature 1981, Part 1 Siegfried Böhme, Professor Dr. Walter Fricke, Inge Heinrich, Wilfried Hofmann, Dietlinde Krahn, Dorothea Rosa, Dr. Lutz D. Schmadel, Gert Zech, 2013-11-11

Literature 1985, Part 1 S. Böhme, U. Esser, Prof. Dr. W. Fricke, H. Hefele, Inge Heinrich, W. Hofmann, R. Krahn, V. R. Matas, Dr. Lutz D. Schmadel, G. Zech, 2013-12-11

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 39 records literature published in 1985 and received before August 15 1985 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 On account of the introduction of an object index the scope of index information will be considerably enlarged beginning with this volume In connection with the subject index an additional source to satisfy the needs of retrieval is opened up 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 Mona El Choura Ms Monika Kohl Ms Sylvia Matyssek Ms Karin Burkhardt Ms Susanne Schlotelburg and Mr Stefan Wagner supported our task by careful proofreading It is a pleasure to thank them all for their encouragement

Heidelberg September 1985 The Editors Contents Introduction

Saturn James L. Martin, 2003 First observed by Galileo Saturn lies in the distant reaches of the solar system it is the sixth planet a gaseous giant between Jupiter and Uranus It takes its name from the mythological father of Jupiter and Roman god of agriculture Because of the famous circle of rings Saturn is one of the most well regarded occupants of the galaxy Despite their continuous appearance from Earth the rings are actually space dust and debris trapped by Saturn's gravitational pull a fact garnered from several satellite passes and telescope observations The origin of Saturn's rings however remains a mystery Apart from the rings we also are aware of its moon system with the most intriguing planetoid called Titan itself having been the subject of science fiction speculation as a home to life Saturn has been visited by Pioneer 11 and the two Voyager probes with Cassini slated to arrive in 2004 Our study of this most intriguing planet will continue into the foreseeable future with the hopes of resolving the mysteries it hides

This book provides a thorough and interesting overview of Saturn from its initial observation centuries ago to the contemporary satellite flybys. Anyone captivated by the mysteries of space and the wonders of Saturn needs to understand the background covered here. After the overview is a substantial and carefully selected set of abstracts of literature pertaining to Saturn with easy access then given through author title and subject indexes. **Workshop on the Origins of Solar Systems** Joseph A. Nuth, 1988 Topics addressed include interstellar chemistry and primitive bodies astronomical measurements and nebula models solar nebula models and meteorite and planetary accumulation and evolution **Journal of Scientific & Industrial Research**, 1973

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