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# **Molecular astrophysics**

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**A volume honouring Alexander Dalgarno**

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**EDITED BY P. W. HARTOOGH**

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# Molecular Astrophysics A Volume Honouring Alexander Dalgarno

**T. W. Hartquist**



## **Molecular Astrophysics A Volume Honouring Alexander Dalgarno:**

*Molecular Astrophysics* T. W. Hartquist, 1990 This self contained introduction to molecular astrophysics is suitable as a text for advanced postgraduate courses on interstellar matter It is an excellent summary of present knowledge and outstanding questions and will be valued by research astrophysicists physical chemists atomic and molecular physicists and atmospheric scientists who wish to become familiar with this field Descriptions are given of the distributions and types of molecules observed in galactic and extragalactic sources including those in the vicinity of active galactic nuclei The chemistry of diffuse and dense clouds is also discussed and chemical reactions in shocks and dynamically evolving clouds are considered

*The Molecular Astrophysics of Stars and Galaxies* T. W. Hartquist, David A. Williams, 1998 This book provides a comprehensive survey of modern molecular astrophysics It includes an introduction to molecular spectroscopy and then addresses the main areas of current molecular astrophysics including galaxy formation star forming regions mass loss from young as well as highly evolved stars and supernovae starburst galaxies plus the tori and discs near the central engines of active galactic nuclei All chapters have been written by invited authors who are acknowledged experts in their fields The thorough editorial process has ensured a uniformly high standard of exposition and a coherent style The book is unique in giving a detailed view of its wide ranging subject It will provide the standard introduction for research students in molecular astrophysics The book will be read by research astronomers and astrophysicists who wish to broaden the basis of their knowledge or are moving their activities into this burgeoning field It will enable chemists to learn the astrophysics most related to chemistry as well as instruct physicists about the molecular processes most important in astronomy

**The Chemically Controlled Cosmos** T. W. Hartquist, D. A. Williams, 1995-12-07 Simple chemistry governs a host of the exotic objects that populate our cosmos For example molecules in the early Universe acted as natural temperature regulators keeping the primordial gas cool and in turn allowing galaxies and stars to form What are the tools of the trade for the cosmic chemist and what can they teach us about the Universe we live in These are the questions answered in this engaging and informative guide the first book for nonspecialists on molecular astrophysics In clear nontechnical terms and without formal mathematics Hartquist and Williams show how to study and understand the behavior of molecules in a host of astronomical situations Readers will learn about the secretive formation of stars deep within interstellar clouds the origin of our own solar system the cataclysmic deaths of many massive stars that explode as supernovae and the hearts of active galactic nuclei the most powerful objects in the universe This book provides an accessible introduction to a wealth of astrophysics and an understanding of how cosmic chemistry allows the investigation of many of the most exciting questions concerning astronomy today

Molecular Clouds R. A. James, T. J. Millar, 1991-06-28 The study of molecular clouds has received increasing interest over recent years particularly in the UK with the advent of powerful new instruments such as MERLIN and the Maxwell millimetre wave telescope This book is based on the proceedings of the Seventh Manchester International

Astronomy Conference which brought together an international list of speakers to discuss important new developments in this field The book covers a wide range of topics relevant to the general subject of molecular clouds with review articles and papers from an impressive list of contributors Much new work in this area is covered and consequently this book should become an important reference source for workers in this and related fields Highlights of Astronomy Derek McNally, 2012-12-06 It is the customary practice to report the major events of a General Assembly the Invited Discourses Joint Discussions and Joint Commission Meetings in Highlights of Astronomy Vol 8 reports the highlights of the XXth General Assembly of the International Astronomical Union 1988 August 2-11 Baltimore USA The present volume contains the 3 Invited Discourses and papers presented at 7 Joint Discussion Meetings and 6 Joint Commission Meetings Two Joint Commission Meetings will be reported elsewhere JCM5 Spectroscopy of Individual Stars in Globular Clusters and the Early Chemical Evolution of our Galaxy in summary only here published by the Imprimerie de l'Observatoire de Paris and JCM7 Star Clusters in the Magellanic Clouds see Transactions of the IAU Vol XXB report of Commission 37 I am most grateful to the authors of the invited discourses R M West and V I Moroz M Schmidt and M Rees for sending me the manuscripts so promptly I am also indebted to the Chairmen of the Joint Discussion and Joint Commission Meetings for their organisation of the meetings and for the assembly of their material for publication Unfortunately the deadline for receipt of manuscripts coincided with an extended postal strike in France which seriously hindered the preparation of the volume for publication

**Advances in Atomic, Molecular, and Optical Physics**, 1994-01-04 Advances in Atomic Molecular and Optical Physics established in 1965 continues its tradition of excellence with Volume 32 published in honor of Founding Editor Sir David Bates upon his retirement as editor of the series This volume presents reviews of topics related to the applications of atomic and molecular physics to atmospheric physics and astrophysics *Kinematics and Dynamics of Diffuse Astrophysical Media* John E. Dyson, E.B. Carling, 2012-12-06 The area of diffuse astrophysical media is enormous and ranges over circumstellar to extragalactic scales The physical conditions can vary from cool dusty gases to collections of relativistic particles Flows in such media are set up by energy and momentum injection from winds jets and explosions The study of these phenomena involves physics chemistry and inevitably hydrodynamics One of the most important aspects of this study is the ever increasing overlap between theory and observation Indeed it can be argued that the only way to really understand these complex flows which can never be duplicated under terrestrial conditions is to encourage this overlap and this was one major aim of this Conference Because of the long theoretical and observational association of the Manchester Group with this general area Manchester seemed an appropriate venue for this Conference But in fact this long association and the actual year of the Conference are connected In 1951 Franz Kahn joined the Astronomy Department at Manchester University and immediately the study of diffuse media particularly the hydrodynamic aspects commenced and has flourished ever since Franz became Head of the Astronomy Department in 1981 following the retirement of Professor Z Kopal who founded the

Department and was instrumental in attracting Franz to it In 1993 Franz retired from this position and a most serendipitous coincidence was his election to the Royal Society announced shortly before the Conference

**Modern Electronic Structure Theory** D. R. Yarkony, 1995 Modern Electronic Structure Theory provides a didactically oriented description of the latest computational techniques in electronic structure theory and their impact in several areas of chemistry The book is aimed at first year graduate students or college seniors considering graduate study in computational chemistry or researchers who wish to acquire a wider knowledge of this field

**Shocks in Astrophysics** T.J. Millar, A.C. Raga, 2012-12-06 This volume contains the proceedings of an international conference on Shocks in Astrophysics held at UMIST Manchester England from January 9-12 1995 The study of interstellar and circumstellar gas dynamics has a long and distinguished history in Manchester and has been almost entirely concentrated in the school founded by Franz Kahn in the Astronomy Department University of Manchester In January 1993 one of us AR was appointed to the faculty of the Astrophysics Group in the Department of Mathematics at UMIST and astrophysical gas dynamics became a major interest of the Group The subject of this conference was chosen partly for the topicality of the subject matter and partly to help synthesise this expertise with the expertise in interstellar chemistry already present in the Group The first fruits of this synthesis are contained in this volume As it happened this conference celebrated not so much the beginnings of a long and fruitful collaboration but rather gave many of Alex's friends the chance to say a fond farewell as he departed UMIST at the end of January 1995 to take up a chair at UNAM Mexico City The core of this volume consists of twelve review articles marked R in the list of contents incorporating observational and theoretical studies of shock waves in a variety of situations from Herbig-Haro objects to Supernova Remnants to Active Galactic Nuclei We have also included the contributed C and poster P papers

**Modern Electronic Structure Theory (In 2 Parts) - Part 2** David R Yarkony, 1995-09-28 Modern Electronic Structure Theory provides a didactically oriented description of the latest computational techniques in electronic structure theory and their impact in several areas of chemistry The book is aimed at first year graduate students or college seniors considering graduate study in computational chemistry or researchers who wish to acquire a wider knowledge of this field

**Dust and Chemistry in Astronomy** T.J Millar, D.A Williams, 2019-06-06 Dust is widespread in the galaxy To astronomers studying stars it may be just an irritating fog but it is becoming widely recognized that cosmic dust plays an active role in astrochemistry Without dust the galaxy would have evolved differently and planetary systems like ours would not have occurred To explore and consolidate this active area of research Dust and Chemistry in Astronomy covers the role of dust in the formation of molecules in the interstellar medium with the exception of dust in the solar system Each chapter provides thorough coverage of our understanding of interstellar dust particularly its interaction with interstellar gas Aimed at postgraduate researchers the book also serves as a thorough review of this significant area of astrophysics for practicing astronomers and graduate students

**Interstellar Turbulence** José Franco, Alberto Carraminana, 1999-05-28 This timely volume presents a series of

review articles covering every aspect of interstellar turbulence from accretion disks molecular clouds atomic and ionized media through to spiral galaxies based on a major international conference held in Mexico City With advances in observational techniques and the development of more efficient computer codes and faster computers research in this area has made spectacular progress in recent years This book provides a comprehensive overview of the most important developments in observing and modelling turbulent flows in the cosmos It provides graduate student and researchers with a state of the art summary of observational theoretical and computational research in interstellar turbulence **The Impact of Space Experiments on Our Knowledge of the Physics of the Universe** Franco Giovannelli, Lola Sabau-Graziati, 2013-03-09

Space experiments have opened practically all electromagnetic windows on the Universe A discussion of the most important results obtained with multi frequency photonic astrophysics experiments will provide new input to advance our knowledge of physics very often in its more extreme conditions A multitude of high quality data across the whole electromagnetic spectrum came at the scientific community's disposal a few years after the beginning of the Space Era With these data we are attempting to explain the physics governing the Universe and its origin which continues to be a matter of the greatest curiosity for humanity In this book we describe the latest steps of the investigations born with the advent of space experiments We highlight the most important results identify unsolved problems and comment on perspectives we can reasonably expect This book aims to provide a useful tool for the reader who is not specialized in space astrophysics and for students Therefore the book is written in the form of a review with a still reasonable length taking into account the complexity of the arguments discussed We do not claim to present a complete picture of the physics governing the Universe but have rather selected particular topics for a more thorough discussion A cross section of essays on historical modern and philosophical topics is offered and combined with personal views into tricks of the space astrophysics trade

*Dissociative Recombination* Bertrand R. Rowe, J. Brian A. Mitchell, André Canosa, 2012-12-06 Proceedings of a NATO ARW held in Saint Jacut de la Mer Brittany France May 3 8 1992 Optical and Infrared Spectroscopy of Circumstellar Matter Eike W. Guenther, Bringfried Stecklum, Sylvio Klose, 1999 Herbig-Haro Flows and the Birth of Low Mass Stars Bo Reipurth, Claude Bertout, 2013-12-01 Herbig Haro objects were discovered 50 years ago and during this half century they have developed from being mysterious small nebulae to becoming an important phenomenon in star formation Indeed HH flows are now recognized not only as fascinating astrophysical laboratories involving shock physics and chemistry hydrodynamics and radiation processes but it has gradually been realized that HH flows hold essential clues to the birth and early evolution of low mass stars IAU Symposium No 182 on Herbig Haro Flows and the Birth of Low Mass Stars were held from January 20 to 24 1997 in Chamonix in the French Alps A total of 178 researchers from 26 countries met to discuss our present level of understanding of Herbig Haro flows and their relation to disk accretion events and T Tauri winds and other outflow phenomena like molecular outflows embedded molecular hydrogen flows and radio jets The present book contains

the manuscripts from the oral contributions of the symposium The poster papers were printed in a separate volume Low Mass Star Formation from Infall to Outflow edited by Fabien Malbet and Alain Castets which was distributed at the beginning of the meeting Together these two books document the vigorous state and the scientific appeal which research into Herbig Haro flows and related issues in star formation enjoys today observationally as well as theoretically

*Composition and Origin of Cometary Materials* K. Altwegg,P. Ehrenfreund,Johannes Geiss,W.F. Huebner,2012-12-06 Comet nuclei are the most primitive bodies in the solar system They have been created far away from the early Sun and their material properties have been altered the least since their formation Thus the composition and structure of comet nuclei provide the best information about the chemical and thermodynamic conditions in the nebula from which our solar system formed In this volume cometary experts review a broad spectrum of ideas and conclusions based on in situ measurement of Comet Halley and remote sensing observations of the recent bright Comets Hale Bopp and Hyakutake The chemical character of comet nuclei suggests many close similarities with the composition of interstellar clouds It also suggests material mixing from the inner solar nebula and challenges the importance of the accretion shock in the outer nebula The book is intended to serve as a guide for researchers and graduate students working in the field of planetology and solar system exploration Several special indexes focus the reader s attention to detailed results and discussions It concludes with recommendations for laboratory investigations and for advanced modeling of comets the solar nebula and the collapse of interstellar clouds      *Monthly Notes of the Astronomical Society of Southern Africa* Astronomical Society of Southern Africa,1995      Reports on Astronomy Jacqueline Bergeron,2012-12-06 IAU Transactions are published as a volume corresponding to each General Assembly Volume A is produced prior to the Assembly and contains Reports on Astronomy prepared by each Commission President The intention is to summarize the astronomical results that have affected the work of the Commission since the production of the previous Reports up to a time which is about one year prior to the General Assembly Volume B is produced after the Assembly and contains accounts of Commission Meetings which were held together with other material The reports included in the present volume range from outline summaries to lengthy compilations and references Most reports are in English      *Millimeter-Wave Astronomy: Molecular Chemistry & Physics in Space* W.F. Wall,Alberto Carramiñana,Luis Carrasco,P.F. Goldsmith,2012-12-06 Proceedings of the 1996 INAOE Summer School of Millimeter Wave Astronomy held at INAOE Tonantzintla Puebla M xico 15 31 July 1996

## Unveiling the Power of Verbal Art: An Emotional Sojourn through **Molecular Astrophysics A Volume Honouring Alexander Dalgarno**

In some sort of inundated with monitors and the cacophony of fast transmission, the profound energy and emotional resonance of verbal artistry frequently diminish in to obscurity, eclipsed by the regular barrage of noise and distractions. Yet, nestled within the lyrical pages of **Molecular Astrophysics A Volume Honouring Alexander Dalgarno**, a captivating perform of fictional splendor that impulses with organic thoughts, lies an memorable trip waiting to be embarked upon. Published by a virtuoso wordsmith, that mesmerizing opus books visitors on an emotional odyssey, softly revealing the latent possible and profound affect stuck within the complex web of language. Within the heart-wrenching expanse of this evocative examination, we can embark upon an introspective exploration of the book is main subjects, dissect its interesting writing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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