

Observational Molecular Astronomy

David A. Williams and Serena Villani



Observational Molecular Astronomy Serena Viti

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Observational Molecular Astronomy David A. Williams, Serena Viti, 2013-11-25 This is the first book for astronomers who wish to use molecular emissions as a tool to explore the Universe *Case Studies in Star Formation* Duncan MacKay, Mark Thompson, James Urquhart, 2023-04-13 A succinct overview of our current understanding in the molecular astronomy of star formation for graduate students and early researchers **Cosmic Rays in Star-Forming Environments** Diego F. Torres, Olaf Reimer, 2013-04-19 These are the proceedings of the Sant Cugat Forum 2nd Workshop on Cosmic ray Induced Phenomenology in Stellar Environments held April 16 19 2012 The aim of this Workshop was to address the current knowledge and challenges of high energy emission from stellar environments at all scales and provide a comprehensive review of the state of the field from the observational to the theoretical perspectives In the meeting the prospects for possible observations with planned instruments across the multi wavelength spectrum were analyzed and also how they impact on our understanding of these systems **The Observatory** , 2002 *Jets in Young Stellar Objects* Amadeu J. L. Fernandes, Paulo J. V. Garcia, J. J. G. Lima, João J. G. Lima, 2004 The ubiquity of jet phenomena in young stellar objects active galactic nuclei symbiotic stars planetary nebulae and x ray binaries has driven a broad literature on the astrophysics of collimated mass ejection One of the fundamental open problems in star formation is the understanding of the physical mechanisms by which mass is ejected from the protostellar system and collimated into jets Locally jets will regulate the system s angular momentum and therefore its evolution during the first few million years At large scale jets inject momentum into the cloud thus affecting its star formation efficiency and evolution Many recent advances over the last years in the star formation research both theory and observations together with the increasing availability of computational resources provided an excellent opportunity to organise a workshop This volume presents the results of the workshop discussions on the jet phenomenon on different astrophysical scales and covers interdisciplinary areas such as steady state winds time dependent winds jets jet energetics and jet wind propagation *Dynamical Astrochemistry* David A Williams, Thomas W Hartquist, Jonathan M C Rawlings, Cesare Cecchi-Pestellini, Serena Viti, 2017-12-13 Astrochemistry is a well established interdisciplinary subject and the methods for describing time dependent chemistry in static or slowly changing regions of interstellar space have been well developed over many years Existing astrochemical books normally describe the subject in terms of chemistry in static or slowly varying astronomical situations but the most significant astronomical regions are those in which the physical conditions change on timescales that are comparable to or shorter than chemical timescales Written by leading experts in this area this is the first book specifically devoted to the astrochemistry of dynamically evolving astronomical regions It provides a comprehensive description of this important area of science stressing in particular the methods that have been developed for specific purposes It will be of interest to researchers in astrochemistry including both chemists and physicists and could form the basis of a postgraduate course for research students in chemistry and physics

Winds, Bubbles, and Explosions Jane Arthur, 2003 *Revista Mexicana de Astronomía Y Astrofísica* , 2003

International Aerospace Abstracts , 1998 **Handbook of Astrochemistry** Wendy A. Brown, Martin R.S.

McCoustra, Serena Viti, 2024-07-01 Astrochemistry is an interdisciplinary field centered on the study and the understanding of the chemistry that occurs in space in the gas phase on dust grain surfaces and in solid state materials the grain themselves and icy mantles that grow on them It focuses on the role that chemistry plays in the matter cycle and the influence it has on the chemical evolution of the Universe The Handbook of Astrochemistry provides a comprehensive overview of Astrochemistry as a series of tutorial reviews by leading experts on all experimental theoretical computational and astronomical aspects of this field Starting from an overview of the observational molecular Universe it then moves on to describe the state of the art knowledge in the fields of gas phase and solid phase laboratory and computational astrochemistry its use in astrochemical modelling and finally how observations of molecules shape our understanding of how stars and planets form and of the chemical origins of biology Combining the knowledge and experience of an international team of experts the Handbook of Astrochemistry is an authoritative accessible guide for all those working in related fields

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