

# **Mass Outflows from Stars and Galactic Nuclei**

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(editors)



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# Mab Outflows From Stars And Galactic Nuclei

**Padhraic Smyth**



## **Mass Outflows From Stars And Galactic Nuclei:**

Mass Outflows from Stars and Galactic Nuclei Luciana Bianchi, Roberto Gilmozzi, 2012-12-06 The objective of this workshop was to put together observational and theoretical works on outflows from different kinds of astrophysical objects occurring on different scales and at various evolutionary phases and to discuss the impact of observations from future space missions For the stars we thought to follow throughout the evolution the relevance rates and dynamical modes of the mass loss phenomenon e.g. to explain how and when massive stars lose most of their initial mass to end up with typical WD masses The observations of the solar wind were included for being a unique case where the origin and propagation of the outflow can be resolved We thought that the comparison with similar phenomena occurring in galactic outflows would be fruitful as demonstrated by recent works on galactic winds and jets The interest of having this workshop in Torino came because there are groups in this area at the Astronomical Observatory and at the Institute of Physics of the University involved in the theoretical and observational studies of outflows from astrophysical objects The members of the Scientific Organizing Committee were V. Castellani, C. Cesarski, P. Conti, A. Ferrari, A. Gabriel, M. Grewing, Y. Kondo, H. Lamers, V. Manno, M. Rees and R. Schilizzi The Local Organizing Committee was L. Bianchi, G. Massone and E. Antonucci During the workshop the following topics were treated: the solar wind, the mass loss from cool stars and from hot stars.

**Dense Molecular Gas around Protostars and in Galactic Nuclei** Willem A. Baan, Huib Jan van Langevelde, 2005-12-05 The European Workshop on Astronomical Molecules was held at The Conference Building in Zwolle, the Netherlands on 18-20 February 2004 The idea behind the workshop was to bring together astronomers studying similar processes in different astrophysical environments: masers and dense molecular gas around young stars and galactic nuclei There is considerable overlap in physical and chemical phenomena between these environments with scales ranging from circumstellar to central regions of galaxies The workshop became a meeting place of observers and theorists as well as young and senior astronomers The venue of the meeting facilitated continuous stimulated discussions in a relaxed atmosphere throughout the meeting and after sessions in the hotspots of the cosy town of Zwolle This issue includes 12 reviews and 27 contributed papers presented in this Workshop all of them were refereed by invited speakers or the editors The quality of the papers is outstanding The projects discussed here are often in an early stage and undoubtedly their progress has benefited greatly from the opportunity to discuss results with the experts in a wide range of areas Similarly we feel confident that the interaction of specialists with different backgrounds will initiate many new projects and collaborations The format of the meeting was special since all participants were given the opportunity to make an oral presentation and there were no posters In addition the schedule allowed sufficient room enough for off-line presentations and discussions

Fragmentation of Molecular Clouds and Star Formation E. Falgarone, F. Boulanger, G. Duvert, 2012-12-06 A few years ago a motivation for organizing one more IAU Symposium on star formation in Grenoble was the anticipated completion of the IRAM interferometer on the Plateau de Bure close to Grenoble

This choice was also a sort of late celebration of the genius of Joseph Fourier born in Grenoble whose work is the very foundation of interferometry At the time when we finally announced the advent of this conference the first reactions we got from the community were expressions of saturation and even reject the Symposium being unfortunately scheduled almost simultaneously as two other major meetings on closely related topics and sponsored by different organizations A wave of disappointment then reached the organizers Some of us were enthusiastic enough to help the others overcome their discouragement Let them be thanked here There was indeed a deeper motivation for organizing this conference It was to trigger the meeting and communication of physicists and astrophysicists since many of the difficulties met now in understanding the physics of the interstellar medium and its evolution toward star formation are common to several if not most other fields of physics They are assigned to one origin complexity

**The Interplay Among Black Holes, Stars and ISM in Galactic Nuclei (IAU S222)** International Astronomical Union, Symposium, 2004 How massive are the largest and smallest nuclear black holes in galaxies Why are the masses of nuclear black holes proportional to those of their host galaxy bulges How is nuclear activity triggered What are the observational signatures of such processes What are the connections between the active nucleus stars and interstellar medium in galaxies Answers to these questions are addressed in this book which presents a compilation of 191 works covering recent observations from X rays to radio wavelengths as well as theoretical modeling of accretion disks stellar populations and galaxy and black hole evolution This volume presents the nuclear activity as a phase in the life of a galaxy which is intimately connected to the evolution of its stars and interstellar medium It brings together recent developments in topics covering most aspects of galaxy evolution and is a valuable resource for astronomers and graduate students working in extragalactic astronomy

*Stellar Astrophysics* Roger John Tayler, 1992 *Stellar Astrophysics* contains a selection of high quality papers that illustrate the progress made in research into the structure and evolution of stars Senior undergraduates graduates and researchers can now be brought thoroughly up to date in this exciting and ever developing branch of astronomy

*Panel Reports* ~ "New Worlds, New Horizons in Astronomy and Astrophysics" National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Board on Physics and Astronomy, Committee for a Decadal Survey of Astronomy and Astrophysics, Program Prioritization Panels, Science Frontiers Panels, 2011-06-18 Every 10 years the National Research Council releases a survey of astronomy and astrophysics outlining priorities for the coming decade The most recent survey titled New Worlds New Horizons in Astronomy and Astrophysics provides overall priorities and recommendations for the field as a whole based on a broad and comprehensive examination of scientific opportunities infrastructure and organization in a national and international context

*Panel Reports* New Worlds New Horizons in Astronomy and Astrophysics is a collection of reports each of which addresses a key sub area of the field prepared by specialists in that subarea and each of which played an important role in setting overall priorities for the field The collection published in a single volume includes the reports of the following panels Cosmology and

Fundamental Physics Galaxies Across Cosmic Time The Galactic Neighborhood Stars and Stellar Evolution Planetary Systems and Star Formation Electromagnetic Observations from Space Optical and Infrared Astronomy from the Ground Particle Astrophysics and Gravitation Radio Millimeter and Submillimeter Astronomy from the Ground The Committee for a Decadal Survey of Astronomy and Astrophysics synthesized these reports in the preparation of its prioritized recommendations for the field as a whole These reports provide additional depth and detail in each of their respective areas Taken together they form an essential companion volume to New Worlds New Horizons A Decadal Survey of Astronomy and Astrophysics The book of panel reports will be useful to managers of programs of research in the field of astronomy and astrophysics the Congressional committees with jurisdiction over the agencies supporting this research the scientific community and the public

**Literature 1988, Part 2** Astronomisches Rechen-Institut, 2013-06-29 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 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 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 2

**Quasars at All Cosmic Epochs** Paola Marziani, Mauro D'Onofrio, Ascensión del Olmo, Deborah Dultzin, 2018-10-05 The last 50 years have seen a tremendous progress in the research on quasars From a time when quasars were unforeseen oddities we have come to a view that considers quasars as active galactic nuclei with nuclear activity a coming of age experienced by most or all galaxies in their evolution We have passed from a few tens of known quasars of the early 1970s to the 500 000 listed in the catalogue of the Data Release 14 of the Sloan Digital Sky Survey Not surprisingly accretion processes on the central black holes in the nuclei of galaxies the key concept in our understanding of quasars and active nuclei in general have gained an outstanding status in present day astrophysics Accretion produces a rich spectrum of phenomena in all bands of the electromagnetic spectrum The power output of highly accreting quasars has impressive effects on their host galaxies All the improvement in telescope light gathering and in computing power notwithstanding we still miss a clear connection between observational properties and theory for quasars as provided for example by the H R diagram for stars We do not yet have a complete self consistent view of nuclear activity with predictive power as we do for main sequence

stellar sources At the same time quasars offer many windows open onto the unknown On small scales quasar properties depend on phenomena very close to the black hole event horizon On large scales quasars may effect evolution of host galaxies and their circum galactic environments Quasars potential to map the matter density of the Universe and help reconstruct the Universe s spacetime geometry is still largely unexploited The times are ripe for a critical assessment of our present knowledge of quasars as accreting black holes and of their evolution across the cosmic time The foremost aim of this research topic is to review and contextualize the main observational scenarios following an empirical approach to present and discuss the accretion scenario and then to analyze how a closer connection between theory and observation can be achieved identifying those aspects of our understanding that are still on a shaky terrain and are therefore uncertain knowledge This research topic covers topics ranging from the nearest environment of the black hole to the environment of the host galaxies of active nuclei and to the quasars as markers of the large scale structure and of the geometry of spacetime of the Universe The spatial domains encompass the accretion disk the emission and absorption regions circum nuclear starbursts the host galaxy and its interaction with other galaxies Systematic attention is devoted to some key problems that remain outstanding and are clearly not yet solved the existence of two quasar classes radio quiet and radio loud and in general the systematic contextualization of quasar properties the properties of the central black hole the dynamics of the accretion flow in the inner parsecs and the origin of the accretion matter the quasars small and large scale environment the feedback processes produced by the black hole into the host galaxy quasar evolutionary patterns from seed black holes to the present day Universe and the use of quasars as cosmological standard candles The timing is appropriate as we are now witnessing a growing body of results from major surveys in the optical UV X near and far IR and radio spectral domains Radio instrumentation has been upgraded to linear detector a change that resembles the introduction of CCDs for optical astronomy making it possible to study radio quiet quasars at radio frequencies Herschel and ALMA are especially suited to study the circum nuclear star formation processes The new generation of 3D magnetohydrodynamical models offers the prospective of a full physical modeling of the whole quasar emitting regions At the same time on the forefront of optical astronomy applications of adaptive optics to long slit spectroscopy is yielding unprecedented results on high redshift quasars Other measurement techniques like 2D and photometric reverberation mapping are also yielding an unprecedented amount of data thanks to dedicated experiments and instruments Thanks to the instrumental advances ever growing computing power as well as the coming of age of statistical and analysis techniques the smallest spatial scales are being probed at unprecedented resolution for wide samples of quasars On large scales feedback processes are going out of the realm of single object studies and are entering into the domain of issues involving efficiency and prevalence over a broad range of cosmic epochs The Research Topic Quasars at all Cosmic Epochs collects a large fraction of the contributions presented at a meeting held in Padova sponsored jointly by the National Institute for Astrophysics the Padova Astronomical Observatory the

Department of Physics and Astronomy of the University of Padova and the Instituto de Astrofísica de Andalucía IAA of the Consejo Superior de Investigaciones Científicas CSIC The meeting has been part of the events meant to celebrate the 250th anniversary of the foundation of the Padova Observatory *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 **International Aerospace Abstracts**, 1999 *Literature 1973, Part 1* Siegfried Böhme, Walter Fricke, Ulrich Güntzel-Lingner, Frieda Henn, Dietlinde Krahn, Ute Scheffer, Gert Zech, 2013-03-14 Astronomy and Astrophysics Abstracts which has appeared in semi annual volumes since 1969 is devoted to the recording summarizing and indexing of astronomical publications throughout the world It is prepared under the auspices of the International Astronomical Union according to a resolution adopted at the 14th General Assembly in 1970 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of literature in all fields of astronomy and astrophysics Every effort will be made to ensure that the average time interval between the date of receipt of the original literature and publication of the abstracts will not exceed eight months This time interval is near to that achieved by monthly abstracting journals compared to which our system of accumulating abstracts for about six months offers the advantage of greater convenience for the user Volume 9 contains literature published in 1973 and received before August 15 1973 some older literature which was received late and which is not recorded in earlier volumes is also included We acknowledge with thanks contributions to this volume by Dr J Bouska who surveyed journals and publications in the Czech language and supplied us with abstracts in English and by the Commonwealth Scientific and Industrial Research Organization CSIRO Sydney for providing titles and abstracts of papers on radio astronomy **Scientific and Technical Aerospace Reports**, 1992

**Galactic and Extragalactic Star Formation** Ralph E. Pudritz, Michel Fich, 2012-12-06 Recent advances in the instrumentation used to observe star forming regions in both our own Milky Way and in external galaxies have transformed the subject from a phenomenological pursuit into an increasingly unified physical science High resolution centimetre millimetre infrared and optical studies of local star forming clouds have allowed us to probe the physics of star formation down to spatial scales approaching those of the solar system These developments make it possible to better constrain the basic physical processes underlying star formation itself At the same time these new instruments have placed extragalactic studies on a footing detailed enough to allow comparison with star forming regions within our own galaxy This revolution means that we will soon be able to link the physics of local star forming regions to the global star forming properties of

galaxies The entire structure of this NATO Advanced Study Institute was designed to explore this new view of the subject This Institute on Galactic and Extragalactic Star Formation was held from June 21 July 4 1987 at the Conference Centre in the village of Whistler British Columbia Canada The informal atmosphere of this lovely mountain resort stimulated many valuable scientific exchanges The Institute was funded by a major grant from NATO Scientific Affairs Additional financial and logistical assistance was provided by the Canadian Institute for Theoretical Astrophysics CITA and McMaster University

**Star Birth Wonders** Eleanor Hawking, 2025-01-08 Star Birth Wonders takes readers on a fascinating journey through the complex process of stellar formation exploring how scattered cosmic material transforms into the brilliant stars that illuminate our universe The book masterfully weaves together three crucial elements of star birth molecular cloud behavior gravitational collapse physics and protostellar evolution stages presenting these concepts in a way that bridges fundamental physics with astronomical observation Drawing from cutting edge research including recent data from the James Webb Space Telescope the book examines famous stellar nurseries like the Orion Nebula and the Eagle Nebula's Pillars of Creation It demonstrates how various forces gravity magnetic fields and radiation pressure work in concert to create stars while explaining how quantum mechanics intersects with gravitational physics during this cosmic process The progression from basic principles to complex interactions makes the material accessible to readers with a basic science background Through methodical chapters that build upon each other the book connects multiple scientific disciplines from quantum physics to chemistry illustrating how each field contributes to our understanding of stellar evolution What sets this work apart is its comprehensive approach to explaining star formation combining observational evidence from ground based and space based telescopes with computational models while maintaining scientific rigor without sacrificing clarity The result is an engaging exploration of one of the universe's most fundamental processes essential for anyone interested in understanding how stars come into being

**Dark Space** Rachel Bakers, When we gaze up at the night sky we see a tapestry of brilliant stars scattered across an inky black backdrop but this darkness is far from empty The spaces between stars galaxies and even between the fundamental particles that make up matter represent one of the most profound and mysterious aspects of our universe Dark space encompasses not merely the absence of light but a complex realm filled with invisible matter energy and phenomena that challenge our understanding of reality itself The concept of darkness in space extends far beyond the simple absence of photons Even in regions where no stars shine and no galaxies emit their ancient light space itself teems with activity and substance invisible to human eyes The electromagnetic spectrum reveals only a tiny fraction of what exists in the cosmos and most of the universe's content remains hidden from direct observation This hidden realm includes dark matter that outweighs visible matter by a factor of five to one dark energy that drives the accelerating expansion of space itself and vast networks of intergalactic gas and plasma that connect distant galaxies in a cosmic web of incredible complexity The temperature of seemingly empty space provides our first clue that darkness is not emptiness Even in the most remote regions



of the universe far from any star or galaxy space maintains a temperature of approximately 2.7 degrees above absolute zero. This cosmic microwave background radiation represents the afterglow of the Big Bang itself filling every cubic centimeter of space with ancient photons that have been traveling through the universe for nearly 14 billion years. These photons stretched to microwave wavelengths by cosmic expansion ensure that true darkness, absolute cold and complete absence of radiation does not exist anywhere in the observable universe.

**Working Papers** National Research Council, Division on Engineering and Physical Sciences, Commission on Physical Sciences, Mathematics, and Applications, Board on Physics and Astronomy, Astronomy and Astrophysics Survey Committee, 1991-02-01. This volume contains working papers on astronomy and astrophysics prepared by 15 non-National Research Council panels in areas ranging from radio astronomy to the status of the profession.

**Physics Briefs**, 1993. **An Introduction to Radio Astronomy** Bernard F. Burke, Francis Graham-Smith, Peter N. Wilkinson, 2019-08-22. Radio astronomy is an active and rapidly expanding field due to advances in computing techniques with several important new instruments on the horizon. This text provides a thorough introduction to radio astronomy and its contribution to our understanding of the universe, bridging the gap between basic introductions and research level treatments. It begins by covering the fundamentals of physics of radio techniques before moving on to single dish telescopes and aperture synthesis arrays. Fully updated and extensively rewritten, the fourth edition places greater emphasis on techniques with detailed discussion of interferometry in particular and comprehensive coverage of digital techniques in the appendices. The science sections are fully revised with new author Peter N. Wilkinson bringing added expertise to the sections on pulsars, quasars and active galaxies. Spanning the entirety of radio astronomy, this is an engaging introduction for students and researchers approaching radio astronomy for the first time.

**Star Formation, Galaxies and the Interstellar Medium** Jose Franco, Federico Ferrini, G. TENERIO-TAGLE (Ed), 1993-06-10. The enormously powerful phenomena of starbursts are examined in this book. These spectacular star-forming events are seen on large scales in some galaxies, often triggered by galactic interactions. An intriguing implication of starburst research is that active galactic nuclei (AGN) may not be powered by accreting black holes. Instead, theories are presented where compact powerhouses of dust enshrouded star formation lie at the core of AGN, with supernovae exploding roughly once per year within massive nuclear concentrations of gas. This book collects articles from a timely international conference in Elba, Italy, in 1992; these comprise a thorough review of the most important developments in galactic scale star formation since the starburst revolution of the late 1980s. This text will introduce graduate students to this exciting area and keep experts abreast with rapid developments in it.

**Applications of Big Data and Machine Learning in Galaxy Formation and Evolution** Tsutomu T. Takeuchi, 2025-04-29. As investigations into our Universe become more complex in depth and widespread galaxy surveys are requiring state-of-the-art data scientific methods to analyze them, this book provides a practical introduction to big data in galaxy formation and evolution, introducing the astrophysical basics before delving into the latest techniques being

introduced to astronomy and astrophysics from data science This book helps translate the cutting edge methods into accessible guidance for those without a formal background in computer science It is an ideal manual for astronomers and astrophysicists in addition to graduate students and postgraduate students in science and engineering looking to learn how to apply data science to their research Key Features Introduces applications of data science methods to the exciting subject of galaxy formation and evolution Provides a practical guide to understanding cutting edge data scientific methods as well as classical astrostatistical methods Summarises a vast range of statistical and informatics methods in one volume with concrete applications to astrophysics

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