

Mass Outflows from Stars and Galactic Nuclei

**Luciana Bianchi
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(editors)



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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 m s

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 Bures 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

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.

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.

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.

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

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

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

ature 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

Catalog of Infrared Observations Daniel Y. Gezari, 1993
Scientific and Technical Aerospace Reports, 1992 *International Aerospace Abstracts*, 1999 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 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

The Multiwavelength Atlas of Galaxies Glen Mackie, 2011-01-06 Since the radio signature of our own Milky Way was detected in 1931 galaxies have been observed from ultra high energy gamma rays to long wavelength radio waves providing fundamental insights into their formation evolution and structural components Unveiling the secrets of some of the best observed galaxies this atlas contains over 250 full color images spanning the whole electromagnetic spectrum The accompanying text explains why we see the component stars gas and dust through different radiation processes and describes the telescopes and instruments used This atlas is a valuable reference resource on galaxies for students seeking an overview of multiwavelength observations and what they tell us and researchers needing detailed summaries of individual galaxies An accompanying website hosted by the author contains slide shows of the galaxies covered in the book This is available at www.cambridge.org/9780521620628 **The Cold Universe** Thierry Montmerle, 1994 *The Physics of Accretion onto Black Holes* Maurizio Falanga, Tomaso Belloni, Piergiorgio Casella, Marat Gilfanov, Peter Jonker, Andrew King, 2014-10-28 Provides a comprehensive summary on the physical models and current theory of black hole accretion growth and mergers in both the supermassive and stellar mass cases This title reviews in depth research on accretion on all

scales from galactic binaries to intermediate mass and supermassive black holes Possible future directions of accretion are also discussed The following main themes are covered a historical perspective physical models of accretion onto black holes of all masses black hole fundamental parameters and accretion jets and outflows An overview and outlook on the topic is also presented This volume summarizes the status of the study of astrophysical black hole research and is aimed at astrophysicists and graduate students working in this field Originally published in Space Science Reviews Vol 183 1 4 2014

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