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THE INTERSTELLAR DISK-HALO CONNECTION IN GALAXIES

Edited by HANS BLOEMEN



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Interstellar Disk Halo Connection In Galaxies

Jacqueline Bergeron



Interstellar Disk Halo Connection In Galaxies:

The Interstellar Disk-halo Connection in Galaxies International Astronomical Union. Symposium,1991 **The Interstellar Disk-halo Connection in Galaxies** J. B. G. M. Bloemen,International Astronomical Union. Symposium,1990

The Interstellar Disk-Halo Connection in Galaxies Hans Bloemen,1991-07-14 Highly ionized atoms in the general interstellar gas of the galactic disk were first detected through interstellar absorption line observations of O VI with the Copernicus satellite Rogerson et al 1973 Survey measurements by Jenkins 1978 of interstellar O VI absorption toward 72 stars demonstrated the general presence of O VI in the interstellar medium of the galactic disk This research and parallel observational studies of the soft X ray background Williamson et al 1974 McCammon et al 1983 Marshall and Clark 1984 provided direct evidence for the existence of hot low density gas in the interstellar medium of the galactic disk The extension of the absorption line studies to the distant gas of the galactic halo required the launch of the International Ultraviolet Explorer IUE satellite in 1978 The first measures of highly ionized gas in the galactic halo were obtained with the IUE when it was used to record high resolution spectra of bright stars in the Large Magellanic Cloud Savage and de Boer 1979 Those early spectra revealed the presence of absorption by Si IV and C IV in the galactic halo and have been followed by a number of surveys with IUE of highly ionized gas in the galactic disk and halo Savage and de Boer 1981 Pettini and West 1982 Savage and Massa 1987 The study of UV emission from highly ionized gas in the halo has progressed more slowly because of the intrinsic faintness of the emission **The Interstellar Disk-halo Connection in Galaxies** International Astronomical Union. Symposium,1991 *The Formation of the Milky Way* E. J. Alfaro,A. J. Delgado,1995-08-03 This review examines all the key physical processes involved in the formation and evolution of the Milky Way based on an international meeting held in Granada Spain **Cosmic Ray Diffusion in the Galaxy and Diffuse Gamma Emission** Daniele Gaggero,2012-07-09 The original work presented in this thesis constitutes an important contribution to modern Cosmic Ray CR physics and comes during one of the most exciting periods of this field The first part introduces a new numerical code DRAGON to model the CR propagation in our Galaxy The code is then used to perform a combined analysis of CR data making it possible to determine their propagation properties with unprecedented accuracy The second part is dedicated to a theoretical interpretation of the recent crucial experimental results on cosmic electron and positron spectra PAMELA Fermi LAT experiments Using the tools developed in the first part of the thesis the author convincingly argues for the existence of a new spectral component which could arise either from local astrophysical sources such as pulsars or from Dark Matter annihilation or decay This thesis is a highly advanced work the methods analysis and results are clearly and carefully presented This work is set to become an important reference document for any future work in this area *The Interplay Between Massive Star Formation, the ISM and Galaxy Evolution* D. Kunth,1996 *Highlights of Astronomy* Jacqueline Bergeron,2013-12-01 Since 1967 the most prominent events of a General Assembly of the International Astronomical Union are published in a separate volume The

Highlights of Astronomy volume 9 report on the major scientific presentations made at the XXIst General Assembly July 23 August 1 1991 Buenos Aires Argentina The present volume contains the texts of the three invited Discourses and of the papers presented during seven Joint Discussion Meetings and eight Joint Commission Meetings The invited Discourses were arranged by the IAU Executive Committee and the Joint Discourses and Commission Meetings by the respective chairpersons The overall responsibility of the General Assembly was carried out by the IAU General Secretary 1988 1991 Dr D McNally I am indebted to the authors of the invited Discourses to the organizers and editors of the scientific sessions for having provided me with all the material for publication in due time I want to particularly acknowledge the case with which Dr J H Hughes who unfortunately died a few days ago from cancer prepared and checked until the last few weeks the report on the new IAU Reference System This report itself concludes long and difficult discussions among IAU members that he led in a wise and clear sighted manner

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

Morphological and Physical Classification of Galaxies G. Longo, M. Capaccioli, G. Busarello, 2012-12-06 The morphological scheme devised by Hubble and followers to classify galaxies has proven over many decades to be quite effective in directing our quest for the fundamental parameters describing the extragalactic manifold This statement is however far more true for spirals than for ellipticals Echoing the concluding remarks in Scott Tremaine's summary talk at the Princeton meeting on Structure and Dynamics of Elliptical Galaxies the Hubble classification of spirals is useful because many properties of spirals gas content spiral arm morphology bulge prominence etc all correlate with Hubble type By contrast almost nothing correlates with the elliptical Hubble sequence E1 to E7 During the last few years much effort has been put into the search for a more meaningful classification of

ellipticals than Hubble's. Concomitantly forwarded by some provocative conjectures by R. Michard, the classical question of whether E galaxies form a physically homogeneous family has been brushed up once more. Results of these and other parallel studies look rather promising and point to suture part of the dichotomy between ellipticals and disk galaxies which had become popular in the early eighties owing to dynamical arguments. At the same time it appears more and more clear that besides the usual genetic varieties of galaxies, products of environmental evolution must also be contemplated in building our modern picture of the reign of galaxies. The above considerations prompted us to solicit Prof. *Literature 1992, Part 1* Astronomisches Recheninstitut, 2013-11-11 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. The Evolution of Galaxies and Their Environment David J. Hollenbach, Harley A. Thronson, J. Michael Shull, 1993 **High-Velocity Clouds** Hugo van Woerden, Bart Wakker, Ulrich Schwarz, Klaas de Boer, 2006-01-28 On the occasion of the retirement of Ulrich Schwarz a symposium was held in Groningen in May of 1996 celebrating his contributions to the study of the interstellar medium including his work on the high velocity clouds. The coming together of many specialists in the latter field prompted the idea of compiling a book containing their contributions and summarizing the status of our understanding of the high velocity cloud phenomenon. This seemed especially worthwhile at the time since many exciting developments were taking place. After the discovery of some H I clouds with high velocities about 40 years ago the subject had been dominated by 21 cm observations of H I emission. Starting in the mid 1980s much progress was being made because of the availability of new instruments such as large ground based optical telescopes and UV observatories in space. The connections between the work on high velocity clouds and other studies of the properties of the hot interstellar medium also became clearer. How does the Galaxy work? Emilio Javier Alfaro, Enrique Perez, José Franco, 2006-03-30 The international conference How does the Galaxy work? Agalactictertulia rd th with Don Cox and Ron Reynolds was held during the week of 23 to 27 of June 2003 in the marvelous city of Granada Spain. This week marked the beginning of one of the hottest summers that we have ever lived but in contrast the meeting was one of the coolest events that we can remember. First it certainly was a first class scientific reunion with an excellent program, talented speakers and alive discussions in a friendly atmosphere. Second the whole event was embedded in the passionate Andalusian way of life, a true tertulia well seasoned with tasty tapas and perfectly marinated in cool and dry sherry wine. Third the celebration was framed by some of the most beautiful settings that one can imagine: we enjoyed the magnificent splendor of the Alhambra, the unique Muslim Jewish Christian flavor of the Albaicin and the magical gipsy heartbeat of Sacromonte. Last but not least all discussions

whether they were during these sessions or at a bar table were sprinkled with the charm and wit of the two guests of honor Don Cox and Ron Reynolds. The idea of having a scientific feast to celebrate their 60th birthday in Granada was actually conceived at a bar table in Seville with plenty of manzanilla at hand a couple of summers ago. That perhaps was the difficult part of the project. The rest was relatively easy to achieve because Don and Ron are not only remarkable astronomers but they are also great human beings. Indeed we had a very positive response from all parties involved every person we talked to was enthusiastic about the celebration and wanted to give their own point of view in this tertulia.

Modern Cosmology and the Dark Matter Problem D. W. Sciama, 1993 This book shows how modern cosmology has led to the idea of dark matter in the universe and presents a new theory to explain it.

Stellar Astrophysics for the Local Group A. Aparicio, A. Herrero, F. Sánchez, 1998-06-13 A review of the new subject of extragalactic stellar astrophysics for both graduate students and researchers working in astrophysics.

Violent Star Formation Guillermo Tenorio-Tagle, Instituto de Astrofísica de Canarias, Royal Greenwich Observatory, 1994-09-22 A valuable overview and a timely update on all aspects of violent star formation in a host of objects for graduate students and researchers across a broad range of research interests.

Astrophysics in the Extreme Ultraviolet Stuart Bowyer, Roger F. Malina, 2012-12-06 From the beginning of Space Astronomy the Extreme Ultraviolet band of the spectrum roughly defined as the decade in energy from 90-900 was deemed to be the unobservable ultraviolet. Pioneering results from an EUV telescope on the Apollo Soyuz Mission in 1975 forcibly demonstrated that this view was incorrect but it required the all sky surveys of the English Wide Field Camera and the Extreme Ultraviolet Explorer to demonstrate the broad potential of this field. Over 700 EUV sources have now been detected. Over 150 researchers from 16 countries gathered to share results in this new field at the International Astronomical Union Colloquium No 152. Papers were presented on a wide variety of topics including cool star coronae, white dwarf atmospheres and evolution, neutron stars, the Io torus, cataclysmic variable stars, active galactic nuclei, the interstellar medium, winds and atmospheres of early type stars and EUV plasma diagnostics. Selected manuscripts from this meeting are provided in these Conference Proceedings.

Stellar Populations Piet C. van der Kruit, Gerry Gilmore, 2013-12-01 The concept of Stellar Populations has played a fundamental role in astronomy in the last few decades. It was introduced by Walter Baade after he was able to resolve the Andromeda Nebula and its companions into stars when he used red sensitive plates and realised that there were two fundamentally different Hertzsprung Russell diagrams in our and these nearby galaxies: common stars in the solar neighborhood versus globular clusters. This result was published in two papers in 1944 in volume 100 of the *Astrophysical Journal*. Subsequent research gave the concept a much firmer basis and at the famous Vatican Symposium of 1957 resulted in a general scheme of the concept and a working hypothesis for ideas on the formation and evolution of the Galaxy. This has been a guiding principle of studies of our and other galaxies for decades. Some years ago it seemed to us appropriate to commemorate Baade's seminal work in 1994 when it would have its 50th anniversary and to review its

present status and also its role in contemporary understanding While we were in Leiden for an administrative committee we discussed the matter again and over beers on October 29 1991 we decided to take the initiative for an IAU Symposium on the subject during the 1994 IAU General Assembly in Den Haag the Netherlands *High Energy Astrophysics: Models And Observations From MeV To TeV* Peter L Biermann, David Fegan, Fuxi Gan, Dieter H Hartmann, Richard E Lingenfelter, Pierre Sokolsky, Todor S Stanev, 1994-06-21 This book is a collection of comprehensive reviews on astrophysics at the highest energies It puts together for the first time discussions of astrophysics from MeV to EeV energies and beyond Observations at these energies reveal nuclear and particle physics throughout our galaxy as well as in the most extreme environments in the entire cosmos These reports range from the recent spectacular results from the Compton Gamma Ray Observatory including the latest information on enigmatic gamma ray bursts to cosmic rays at the highest energies ever observed by man

Reviewing **Interstellar Disk Halo Connection In Galaxies**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Interstellar Disk Halo Connection In Galaxies**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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