
STELLAR ROTATION

Edited by Anne Stenholm

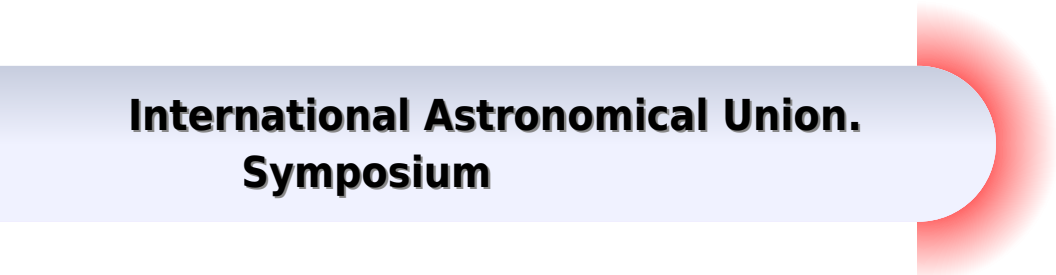


ON BEHALF OF THE INTERNATIONAL COMMISSION

ON THE PUBLICATION OF STELLAR DATA

Stellar Rotation Proceedings Of The IAU Colloquium Etc

**International Astronomical Union.
Symposium**



Stellar Rotation Proceedings Of The Iau Colloquium Etc:

Stellar Rotation A. Slettebak, 2012-12-06 The International Astronomical Union Colloquium on Stellar Rotation was held at the Ohio State University in Columbus Ohio U S A from September 8th through 11 th 1969 Forty four scientists from Argentina Belgium Canada England Finland East and West Germany Italy Israel Japan The Netherlands and the United States attended and participated in the Colloquium The present volume which parallels the actual program closely contains the papers presented at the Colloquium plus most of the discussion following those papers The Colloquium was sponsored by the International Astronomical Union the Ohio State University and the National Science Foundation It is a pleasure to record my thanks to these organizations and especially to Dr Geoffrey Keller Dean of the College of Mathematics and Physical Sciences of the Ohio State University and to Prof C de Jager Assistant General Secretary of the International Astronomical Union for their kind cooperation I am also grateful to H A Abt J Hardorp R P Kraft Mrs A Mashevitch M Plavec 1 W Roxburgh and E Schatzman of the Organizing Committee as well as A J Deutsch and G W Collins II for their help in planning the Colloquium all of them offered valuable suggestions toward organizing the program

Stellar Rotation Arne Slettebak, 1970 **Pulsation, Rotation and Mass Loss in Early-Type Stars** Luis A. Balona, Huib F. Henrichs, Jean Michel Le Contel, 2012-12-06 In this Symposium researchers specializing in pulsation rotation magnetic fields and stellar winds are brought together for the first time in order to broaden our understanding of O and B stars Thanks to advances in digital spectroscopy new types of pulsating B stars have been discovered The pulsations can be understood in terms of the recent revision of metal opacities but the effects of rapid rotation and magnetic fields need further study Observations in the UV and X ray regions demonstrate that many B and Be stars show other activity besides pulsation which is not yet understood The reason for the enhanced mass loss in Be stars is a question which dominates the Symposium and which remains unanswered although it is surely to be found in activity at or near the photosphere coupled with rotation It is shown that the geometry of the circumstellar envelopes around Be stars is indeed a flattened disk as they can now be optically resolved The variability of radiatively driven winds from O and B stars are likely related to the rotation of the star This underlines the central theme of the book that the various phenomena seen in these stars cannot be studied in isolation

Transiting Planets (IAU S253) International Astronomical Union. Symposium, 2009-04-16 The discovery of planets around stars other than the Sun within the past 15 years has opened up one of the largest and most exciting new fields in modern astronomy The transit method of detecting exoplanets has revealed more information about individual planets than any other method of detection This volume the proceedings of IAU Symposium 253 contains a description of the latest development in the field of transiting extrasolar planets Topical reviews and short contributions from more than one hundred authors present the latest results in the field from the photometric transit searches for transiting planets through observational studies of these planets to the consequences for theories of planet formation evolution and planetary atmospheres Presenting the latest research it is an

important resource for graduate students and researchers working in astronomy and planetary sciences Stellar Populations as Building Blocks of Galaxies (IAU S241) International Astronomical Union. Symposium, 2007-10-22 Report on the progress made in recent years in the field of stellar populations □□□□□□□□, 1974 *Coronal and Stellar Mass Ejections (IAU S226)* International Astronomical Union. Symposium, Kenneth Dere, 2005-07-04 Proceedings of the IAU Symposium on Coronal and Stellar Mass Ejections **Dynamical Evolution of Dense Stellar Systems (IAU S246)** International Astronomical Union. Symposium, 2008-06-12 Dense stellar systems lie at the interface between dynamics stellar evolution and galaxy formation and they provide us with an ideal laboratory to understand many different aspects of these important fields as well as to explore the interplay between them The complete study of dense stellar systems is a very challenging task which requires the collaboration and the exchange of ideas of astronomers and physicists with observational and theoretical expertise in galactic and extra galactic astronomy stellar dynamics hydrodynamics stellar evolution as well as knowledge of many aspects of computational physics IAU Symposium 246 brought together experts in all these areas to cover the broad field of dense stellar systems with particular emphasis on the interplay between them and on the comparison between observations and simulations This volume provides a complete review of the most recent studies in this topical research **Galaxy Evolution Across the Hubble Time (IAU S235)** International Astronomical Union. Symposium, 2007-05-17 This last decade has witnessed a revolution in our observations of galaxies in particular deep imaging with HST and spectroscopy with 10m class ground based telescopes have uncovered many objects that are difficult to place along the Hubble sequence High resolution spectroscopy of extremely faint objects has enabled the study of the kinematic evolution and hence the mass assembly of galaxies to unprecedented look back times for direct comparison with cosmological structure formation scenarios Thus it is now possible to study all three aspects of galaxy evolution their morphological dynamical chemical and spectral evolution out to redshift larger than six exploring more than 95% of the age of the universe These Proceedings of the IAU Symposium 235 report the considerable progress made in recent years on galaxy formation and evolution and look forward to the expected breakthroughs in the domain of remote galaxies with ALMA the ELT and the next generation space telescopes *Compilation, Critical Evaluation and Distribution of Stellar Data* Carlos Jaschek, George A. Wilkins, 2012-12-06 The principal purpose of IAU Colloquium No 35 was to discuss those aspects of the techniques of the compilation evaluation and distribution of data that are common to astrometry photometry and spectrometry of stars and stellar systems In the announcement of the Colloquium it was suggested that there would be special emphasis on the techniques of quality control and on the standards for the presentation of numerical data in both printed and computer readable form As the meeting progressed it became clear that the lack of a standard unambiguous system for the identification of stellar objects was a source of much confusion and inefficiency in the use of existing data files This and other such matters were the subject of further discussions by Commission 5 at the General Assembly of the International Astronomical

Union IAU which was held at Grenoble during the following fortnight 24 August 2 September 1976 The proposal for the Colloquium was prepared by J Jung who was then Director of the Centre des Donnees Stellaires at Stras bourg and G A Wilkins Chairman of the IAU Working Group on Numerical Data and was accepted by the IAU Executive Committee on the recommendation of the President of Commission 5 with the support of Commissions 25 29 and 45 The Scientific Organising Committee consisted of W Fricke B Hauck C Jaschek J Jung B Kukarkin P Lacroute A Underhill and G A Wilkins Chair man The Local Organising Committee consisted of A

Light Elements in the Universe (IAU S268) International Astronomical Union. Symposium, 2010-05-13 IAU Symposium 268 presents an overview of the most recent observational and theoretical research on the formation and evolution of light elements in the Universe H He Li Be B and their isotopes Astrophysicists from a variety of subfields discuss recent developments that will improve our understanding of the light elements and provide important clues to stellar and galactic evolution Big Bang nucleosynthesis and cosmology Striking observational progress has been achieved recently through the advent of next generation ground and space based telescopes such as the cosmic microwave background experiments that allow the accurate determination of the baryon density of the Universe New theoretical breakthroughs in describing stellar interiors and the chemical evolution of complex systems and the remaining challenges in this field are also addressed This critical review is a useful resource for all those interested in the chemical evolution of the Universe

Cosmic Magnetic Fields (IAU S259) International Astronomical Union. Symposium, 2009-06-11 IAU Symposium 259 presents the first interdisciplinary comprehensive review of the role of cosmic magnetic fields involving astronomers and physicists from across the community Offering both theoretical and observational topics ranging from Earth s habitability to the origin of the universe this is an invaluable summary for researchers and graduate students

Exoplanets: Detection, Formation and Dynamics (IAU S249) International Astronomical Union. Symposium, 2008-07-10 In the 12 years since the first discovery of an exoplanet around a main sequence star 51 Peg more than 270 exoplanets have been detected The proceedings of IAU Symposium 249 present the latest theoretical and observational advances in the field of exoplanet research including the ongoing and future projects such as CoRoT and Kepler The volume opens with a review of exoplanet detection and orbital determination techniques before looking at the physics of gas giant atmospheres and close in stars The topics of planet formation migration and the dynamical evolution of protoplanetary disks and multi planet systems are also covered in detail IAU S249 is a useful reference for the graduate students and researchers working in the exciting field of exoplanet study

Chemical Abundances in the Universe International Astronomical Union. Symposium, 2010 Session I Primordial nucleosynthesis and the first stars in the Universe Session II First stars in the Galaxy Session III Chemical abundances in the high red shift Universe Session IV Chemical abundance constraints on mass assembly and star formation in local galaxies and the Milky Way Session V Extrasolar planets the chemical abundance connection Session VI Abundance surveys and projects in the era of future large telescopes

Impact of Modern Dynamics in Astronomy Jacques Henrard, Sylvio Ferraz-Mello, 2012-12-06 Modern dynamics is increasingly participating in the solution of problems raised by astronomical observations. This new relationship is being fostered on one side by the improvements in the observations which in recent years contributed several discoveries of new systems such as the objects in the Kuiper belt, the pulsar and star companions to speak only of the most striking ones and on the other hand by the progresses in modern dynamics. The progresses in modern dynamics are due to two factors: the dissemination of fast computers allowing the numerical studies of very complex systems by a large number of scientists and the improvement in our understanding of the complex behaviour of Hamiltonian systems. KAM and Nekhorochev theories have shed a light on the subtle and surprising interplays between regular and chaotic motions; numerical experiments and analytical approximations have shown how these peculiarities are indeed present in astronomically important systems and are instrumental in understanding their formation and evolution.

Instrumentation and Research Programmes for Small Telescopes J.B. Hearnshaw, P.L. Cottrell, 2012-12-06 This volume is the proceedings of IAU Symposium No 118 on Instrumentation and Research Programmes for Small Telescopes where small telescopes were defined as those ground-based instruments with apertures less than 1.5 m. The scientific goal of the symposium was to emphasise research programmes which were more suited to smaller telescopes on which frequent regular observations can be made. A wide variety of topics on instrumentation, photometry, spectroscopy and polarimetry of objects in the solar system to extragalactic systems were discussed. Each of the four scientific days of the symposium comprised a number of invited review papers, contributed oral papers and discussion sessions devoted purely to the large number of poster papers. An introductory paper on the research potential of small telescopes sets the scene for the symposium. The proceedings have then been divided into three sections: Section I Telescopes and instrumentation; Section II Photometric research programmes; Section III Spectroscopic research programmes. The diversity of topics within each of these sections indicated the extent to which small telescopes have and can contribute greatly to astronomical research. Dr J. A. Graham's summary of the symposium which illustrates the opportunities available with small telescopes concludes these proceedings. As in all symposia the importance of the discussion following each paper was realised. The discussion was recorded on tape and wherever possible on questions and answer sheets transcribed and then edited.

The A-Star Puzzle (IAU S224) International Astronomical Union. Symposium, 2005-04-25 Over the last few decades nuclear processes, radiation transfer, opacities and many other important physical processes have been incorporated in the modelling of stars. As knowledge of these processes has advanced it has become clear that other associated physical processes are not well understood. This volume investigates these processes focusing on convection, diffusion, rotation and magnetic fields. It is a valuable resource for researchers in the field of stellar astrophysics and graduate students.

The Cumulative Book Index, 1996 A world list of books in the English language.

The Galaxy Disk in Cosmological Context (IAU S254) International Astronomical Union. Symposium, Bengt Strömberg, 2009-04-16 The paradigm

of a dark energy and dark matter dominated Universe with the hierarchical merger scenario for the formation of galaxies has scored impressive successes in matching the observed Universe. However, the theory fails to explain the difficulty in generating ordinary disk galaxies such as the Milky Way, suggesting that some important physics must be missing in current models. IAU Symposium 254 was organized to address this question, gathering researchers from an unusually broad range of fields from cosmology to interstellar matter and the formation and evolution of stars. High class reviews, lectures and posters combine to define the frontiers in the field and point the way to new avenues of research. This volume presents a unique set of succinct overviews illuminating the full range of topics in this very active field. It also honors Danish astrophysicist Bengt Strömgren (1908-1987) who laid much of the foundation for this entire field.

Dynamics and Astrometry of Natural and Artificial Celestial Bodies I.M. Wytrzyszczak, J.H. Lieske, R.A. Feldman, 2012-12-06

IAU Colloquium 165 Dynamics and Astrometry of Natural and Artificial Celestial Bodies was held in Poznań, Poland, in July 1996, bringing together over 200 scientists from 27 countries who discussed their work in 179 oral and poster presentations. The present volume contains 83 of the papers presented at the meeting. The meeting brought together specialists from diverse fields who focused on the very close collaboration between dynamics and astrometry, where one discipline contributes to the progress of the other. The oral sessions were organized into general categories pertaining to solar system dynamics, new observational techniques, catalogues and astrometry, dynamics and observational problems of artificial satellites and space debris, rotation of solar system objects, reference systems and astronomical standards, new mathematical techniques, and three all-day poster sessions. This volume is divided into seven parts comprising 83 contributions, a list of participants, and an index.

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