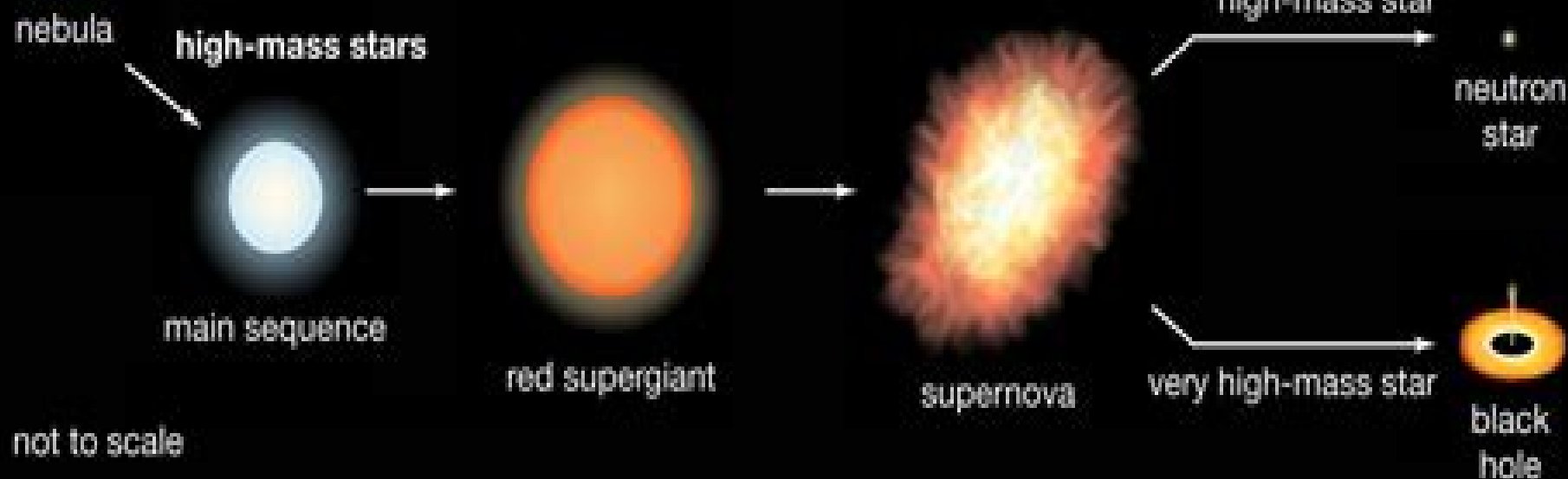


Stellar evolution

low- and medium-mass stars
(including the Sun)



high-mass stars



not to scale

Birth And Evolution Of Massive Stars And Stellar Groups

Fionn Murtagh, Andre Heck



Birth And Evolution Of Massive Stars And Stellar Groups:

Birth and Evolution of Massive Stars and Stellar Groups Wilfried Boland, Hugo van Woerden, 2012-12-06 Proceedings of a Symposium held in Dwingeloo The Netherlands September 24-26 1984 in honour of Adriaan Blaauw on the occasion of his 70th birthday

Birth and Evolution of Massive Stars and Stellar Groups Wilfried Boland, Hugo Van Woerden, 1985

Literature 1985, Part 2 S. Böhme, U. Esser, W. Fricke, H. Hefele, I. Heinrich, W. Hofmann, D. Krahn, V. R. Matas, L. D. Schmadel, G. Zech, 2013-12-14 Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of the literature concerning all aspects of astronomy astrophysics and their border fields It is devoted to the recording summarizing and indexing of the relevant publications throughout the world Astronomy and Astrophysics Abstracts is prepared by a special department of the Astronomisches Rechen Institut under the auspices of the International Astronomical Union Volume 40 records literature published in 1985 and received before February 15 1986 Some older documents which we received late and which are not surveyed in earlier volumes are included too We acknowledge with thanks contributions of our colleagues all over the world We also express our gratitude to all organizations observatories and publishers which provide us with complimentary copies of their publications Starting with Volume 33 all the recording correction and data processing work was done by means of computers The recording was done by our technical staff members Ms Helga Ballmann Ms Mona El Chourati Ms Monika Kohl Ms Sylvia Matyssek Ms Karirr Burkhardt Ms Susanne Schlötelberg Mr Martin Schlötelburg and Mr Stefan Wagner supported our task by careful proof reading It is a pleasure to thank them all for their encouragement

The Origin of Stars and Planetary Systems Charles J. Lada, N.D. Kylafis, 2012-12-06 A few years after the publication of *The Physics of Star Formation and Early Stellar Evolution* we received a request from the publisher for an updated second edition of this popular reference book As originally intended the volume had proved to be a useful text book for graduate astronomy courses and seminars which dealt with topics related to stellar origins The book was based on a series of lectures delivered by a distinguished group of leading researchers at a NATO Advanced Study Institute ASI held in May 1990 on the island of Crete Greece The primary goal of the ASI was in fact to produce a book which would simultaneously provide a broad and systematic overview of as well as a rigorous introduction to the fundamental physics and astronomy at the heart of modern research in star formation and early stellar evolution However by 1995 concern had arisen among those who used the text as a reference for graduate seminars and courses that the book would need to be updated to stay abreast of the discoveries and progress in this rapidly evolving field After some discussion we concluded that a new edition of the book was warranted and that the goal of producing a new edition would be best accomplished by organizing a second ASI in Crete to review the progress in star formation research

Evolution of Massive Stars D. Vanbeveren, W. van Rensbergen, C. de Loore, 2012-12-06 Massive stars occupy an exceptional place in general astrophysics They trigger many if not all of the important processes in galactic evolution whereas due to their intrinsic brightness they offer the only until now possibility to

study the stellar content and stellar behaviour in distant galaxies The last say 25 years massive stars have been the subject of numerous meetings discussing the influence of massive stars on population synthesis the number distribution of different types of massive stars the LBV phenomenon WR stars X ray binaries stellar winds in massive stars chemical peculiarities in massive stars supernova explosions of massive stars and the important SN1987A event the influence of massive stars and chemical evolution of galaxies It is clear that without a theory of stellar evolution the study of these topics loses a lot of its significance Massive star evolution therefore got a chance in these meetings but rarely as a prime subject The state of the art the physical processes and the uncertainties in stellar evolution were barely touched Even more the influence of close binaries in all these massive star meetings slowly disappeared the last say 13 years without any scientific justification although a significant fraction of stars occurs in close binaries with periods small enough so that both components will interact during their evolution Denying the binaries or not discussing their influence on results and conclusions makes the latter very uncertain or even completely unreliable

Galactic and Solar System Optical Astrometry L. V. Morrison, G. F. Gilmore, Royal Greenwich Observatory, 1994-05-26 Astrometry the study of the positions of astronomical objects and how they move across the sky is a cornerstone of modern astronomy Pinning down the distances to and motions of stars in our Galaxy is fundamental it can lead to an understanding of the origin of these stars and how together they affect the evolution of our Galaxy Similarly measuring the motions of planets their satellites and asteroids is crucial to unravelling the origin and evolution of our solar system as well as to the planning of space missions to explore them A workshop held jointly by the Royal Greenwich Observatory and the Institute of Astronomy in Cambridge offered an unusual opportunity to bring together astronomers from the fields of Galactic and solar system astrometry Gathered in this volume are the articles they presented Together these provide an auspicious review of optical astrometry and our understanding of the evolution of the Galaxy and solar system for graduate students and researchers

International Aerospace Abstracts, 1993 The Role of Dust in Dense Regions of Interstellar Matter Thomas Henning, Bringfried Stecklum, 1986-12-31 Proceedings of the Jena Workshop held in Georgenthal GDR March 10 14 1986

Neutron Stars: Theory and Observation J.E Ventura, David Pines, 2012-12-06

Some twenty three years after the discovery of pulsars and their identification as rotating neutron stars neutron star physics may be regarded as coming of age Pulsars and accreting neutron stars have now been studied at every wavelength from the initial radio observations through optical X and ray up to the very recent observations in the TeV region while theorists have studied in some detail relevant physical processes both outside and inside neutron stars As a result comparison of theory with observation provides a test of our theoretical ideas in fields as diverse as neutron and nuclear matter superfluidity and superconductivity the acceleration of high energy particles and the generation and maintenance of intense magnetic fields For example through observations of glitches and post glitch behavior of pulsars it has become possible to establish the presence of superfluid neutron matter in the inner crust of neutron stars and to determine some of its properties while

neutron stars in compact binary systems offer one of the most efficient energy generation mechanisms known. It is in fact the interactive interpretation of these diverse pieces of information that can lead to major advances in our understanding of the physics of these exotic objects and justifies the characterization of neutron stars as hadron physics laboratories.

Molecular Clouds And Star Formation - Proceedings Of The 7th Guo Shoujing Summer School On Astrophysics Yuan Chi, Junhan You, 1995-11-16. This volume is composed of four major in-depth yet pedagogic review chapters on the subject of star formation written by the foremost researchers in the field. Recent infrared and millimeter radio observations are respectively reviewed by Charlie Lada and Phil Myers both of Harvard Smithsonian Center for Astrophysics. The theoretical work is reviewed by Frank Shu of UC Berkeley on the gravitational collapse of dense cores in a giant molecular cloud to form sunlike stars and Bruce Elmegreen of IBM Watson on the gravitational instability leading to large scale star formation. They have written at a level most suitable for graduate students or young researchers who want to develop their research interest in the field with the most complete literature survey to date. This volume is not an ordinary conference proceedings but a textbook to be used in graduate study in astrophysics. The volume also includes other short and interesting contributions from Doug Lin of UC Santa Cruz, Paul Ho of Harvard Smithsonian, Masa Hayashi of Tokyo University, Debra Elmegreen of Vassar, Jing Yao Hu of Beijing Observatory, Guo Xuan Sung of Shanghai Observatory, Chi Yuan of CCNY and ASIAA and Wen Ping Chen of Central University Taiwan.

Origin and Evolution of the Elements: Volume 4, Carnegie Observatories Astrophysics Series Andrew McWilliam, Michael Rauch, 2004-09-23. This Carnegie volume discusses the origin and evolution of elements in our galaxy and others.

Multivariate Data Analysis Fionn Murtagh, Andre Heck, 2012-12-06. Interest in statistical methodology is increasing so rapidly in the astronomical community that accessible introductory material in this area is long overdue. This book fills the gap by providing a presentation of the most useful techniques in multivariate statistics. A wide ranging annotated set of general and astronomical bibliographic references follows each chapter providing valuable entry points for research workers in all astronomical sub disciplines. Although the applications considered focus on astronomy, the algorithms used can be applied to similar problems in other branches of science. Fortran programs are provided for many of the methods described.

Massive Stars, Their Lives in the Interstellar Medium Joseph P. Cassinelli, Edward B. Churchwell, 1993.

Jacobi Dynamics V.I. Ferronsky, S.A. Denisik, S.V. Ferronsky, 2012-12-06. This book sets forth and builds upon the fundamentals of the dynamics of natural systems in formulating the problem presented by Jacobi in his famous lecture series *Vorlesungen über Dynamik* Jacobi 1884. In the dynamics of systems described by models of discrete and continuous media, the many body problem is usually solved in some approximation or the behaviour of the medium is studied at each point of the space it occupies. Such an approach requires the system of equations of motion to be written in terms of space coordinates and velocities in which case the requirements of an internal observer for a detailed description of the processes are satisfied. In the dynamics discussed here we study the time behaviour of the fundamental

integral characteristics of the physical system i.e the Jacobi function moment of inertia and energy potential kinetic and total which are functions of mass density distribution and the structure of a system This approach satisfies the requirements of an external observer It is designed to solve the problem of global dynamics and the evolution of natural systems in which the motion of the system's individual elements written in space co ordinates and velocities is of no interest It is important to note that an integral approach is made to internal and external interactions of a system which results in radiation and absorption of energy This effect constitutes the basic physical content of global dynamics and the evolution of natural systems

Astrophysics with Radioactive Isotopes Roland Diehl, Dieter H. Hartmann, Nikos Prantzos, 2018-10-11 Dealing with astrophysics derived from the radiation emitted by radioactive atomic nuclei this book describes the different methods used to measure cosmic radio isotopes It demonstrates how this astronomical window has contributed to the understanding of the sources and the chemical evolution of cosmic gas Reference materials and explanations are included for students in advanced stages of their education Nuclear reactions in different sites across the universe lead to the production of stable and unstable nuclei Their abundances can be measured through different methods allowing to study the various nuclear processes taking place in cosmic environments Nucleosynthesis is the cosmic formation of new nuclear species starting from hydrogen and helium resulting from the big bang origins Stars create and eject synthesized nuclei during their evolution and explosions Incorporation of the new interstellar composition into next generation stars characterises the compositional chemical evolution of cosmic gas in and between galaxies Radioactive species have unique messages about how this occurs Since the first Edition of this book published in 2011 with the title Astronomy with Radioactivities long awaited new direct observations of supernova radioactivity have been made and are now addressed in two updated chapters dealing with supernovae In this second Edition the advances of recent years beyond one dimensional treatments of stellar structure and stellar explosions towards 3 dimensional models have been included and led to significant re writings in Chapters 3 5 The sections on the Solar System origins have been re written to account for new insights into the evolution of giant molecular clouds The chapter on diffuse radioactivities now also includes material measurements of radioactivities in the current solar system and their interpretations for recent nucleosynthesis activity in our Galaxy Significant new results on gamma rays from positron annihilations have been accounted for in that chapter and led to new links with nucleosynthesis sources as well as interstellar transport processes A new chapter now provides a description of interstellar processes often called chemical evolution thus linking the creation of new nuclei to their abundance observations in gas and stars The experimental instrumental chapters on nuclear reaction measurements on gamma ray telescopes and pre solar grain laboratories have been updated Moreover new windows of astronomy that have been opened up in recent years have been included in the discussions of the multi messenger approach that broadens the basis for astrophysical insights

The Sun and the Heliosphere in Three Dimensions R.G. Marsden, 2012-12-06 The 19th ESLAB Symposium on The Sun and the Heliosphere

in Three Dimensions was held in Les Diablerets Switzerland on 4-6 June 1985 Organised almost exactly ten years after the Goddard Space Flight Center Symposium dealing with the Sun and the interplanetary medium in three dimensions the aim of this Symposium was not only to review the progress made in understanding the three dimensional structure and dynamics of the heliosphere but also to look ahead to the scientific return to be expected from the Ulysses mission Scheduled for launch in May 1986 the scientific instrumentation on board Ulysses will shed light on the conditions and processes occurring away from the ecliptic plane thereby adding literally a new dimension to our understanding of the only stellar plasmasphere to which we have direct access The scientific programme of the Symposium was built around a series of invited review papers dealing with aspects of the corona and its influence on the interplanetary medium via transient ejecta the solar wind energetic solar particles and galactic cosmic rays interplanetary dust and neutral gas These invited talks were supplemented by a number of contributed and poster papers With the exception of three contributed talks and Wibberenz review of coronal and acceleration of energetic particles all papers presented at the Symposium are included in this volume

The Interstellar Medium in Galaxies Harley A. Thronson Jr., J.M. Shull, 2013-12-21 This book contains the proceedings of the sixth Eurographics Workshop on Virtual Environments The event took place from June 1 to June 2 2000 in Amsterdam We hope that readers will find these proceedings to be valuable not only for virtual environment researchers but also for practitioners developing or using virtual environment applications We are glad to report that visibility of the workshop continues to expand and that virtual environment researchers and practitioners from all over the world are submitting papers This year 40 papers and case studies were submitted of which 20 were accepted In addition we are glad to see that the focus of the workshop is also expanding We accepted 6 research papers on evaluation of virtual environments and there was a broad sampling of other topics We would like to thank all those involved in organizing the symposium In particular thanks go to Mieke Brune who was in charge of the local organization In addition we want to thank the international program committee for their excellent yet laborious job in reviewing all submitted papers The quality of the workshop is a reflection of the quality of the submitted papers and the quality of the reviewing process

The Brightest Binaries D. Vanbeveren, W. van Rensbergen, C. de Loore, 2001-11-30 The evolution of galaxies is governed mainly by the evolution of massive stars whereas the evolution of a massive star depends primarily on its mass chemical composition and on whether or not the star is a single object or a binary component To study the evolution of galaxies it is therefore essential to know how stellar masses are distributed at birth how many stars are formed in binaries and what the mass ratio and orbital period distribution of binaries look like Massive stars are intrinsically the brightest stars so that it may be possible to discover their properties in distant groups provided that large telescopes can be used for basic stellar observations However until now the observations of massive stars have been reasonably complete only for a small region of our own Galaxy 3 kpc from the Sun One hopes that the conclusions resulting from these observations hold for the whole Galaxy for the whole

cosmos With The Brightest Stars of De Jager 1980 in mind the present monograph is an addendum and an update in which we discuss the observations of The Brightest Binaries in the framework of stellar evolution A small or intermediate mass star close to the Sun may look brighter than a massive one far away However within volume limited star samples the massive stars are on average also the brightest ones In the present monograph similarly as in the work of De Jager bright means massive The book consists of four main chapters **Astronomy with Radioactivities** Roland Diehl, Dieter H.

Hartmann, Nikos Prantzos, 2010-10-01 This book introduces the reader to the field of nuclear astrophysics i e the acquisition and reading of measurements on unstable isotopes in different parts of the universe The authors explain the role of radioactivities in astrophysics discuss specific sources of cosmic isotopes and in which special regions they can be observed More specifically the authors address stars of different types stellar explosions which terminate stellar evolutions and other explosions triggered by mass transfers and instabilities in binary stars They also address nuclear reactions and transport processes in interstellar space in the contexts of cosmic rays and of chemical evolution A special chapter is dedicated to the solar system which even provides material samples The book also contains a description of key tools which astrophysicists employ in those particular studies and a glossary of key terms in astronomy with radioactivities **The Magellanic Clouds** Raymond Haynes, Douglas Milne, 1991-02-28 Symposium 148 The Magellanic Clouds and their Dynamical Interaction with the Milky Way was the first IAU Symposium held in Australia since 1973 In all 23 countries were represented by 149 participants The Symposium was held from July 9 to 13 1990 at Womens College the University of Sydney The last symposium on the Magellanic Clouds was held in Ttbingen Germany Since then new ground and satellite based instruments have become available A range of results from these instruments were presented at IAU Symposium 148 and are published in these proceedings IAU Symposium 148 was timed to coincide with the commissioning of the Australia Telescope and indeed a few of the first results from that instrument were presented at this Symposium Over the next decade the Australia Telescope is destined to make a major impact on Magellanic Cloud research Papers are arranged in five main sections reflecting the Symposium timetable Large Scale Structure and Kinematics Star Formation and Clustering Stellar Evolution The Interstellar Medium The LMC SMC Galaxy System These are preceeded by both the introduction to and the summary of the Symposium Questions and answers from the oral sessions are reproduced at the end of each section

The Top Books of the Year Birth And Evolution Of Mabive Stars And Stellar Groups The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have captivated audiences this year. Birth And Evolution Of Mabive Stars And Stellar Groups : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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