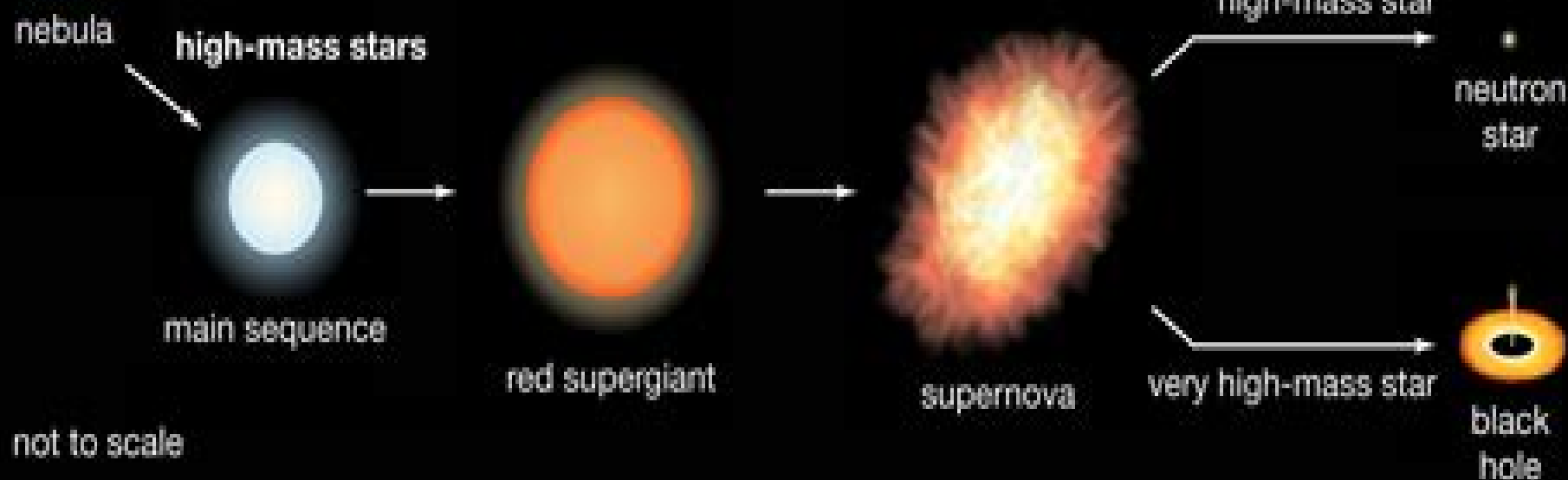


# Stellar evolution

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



high-mass stars



not to scale

# Stellar Instability And Evolution

**S. Böhme,U. Esser,W. Fricke,U.  
Güntzel-Lingner,F. Henn,D. Krahn,H.  
Scholl,G. Zech**

## **Stellar Instability And Evolution:**

Stellar Instability and Evolution P. Ledoux, A. Noels, A.W. Rodgers, 1974-11-30 Proceedings of IAU Symposium No 59 held at Mount Stromlo Canberra Australia August 16 18 1973      **Stellar Instability and Evolution** Paul Ledoux, 1974      *Late Stages of Stellar Evolution* R.J. Tayler, 2012-12-06 IAD Symposium No 66 was held in Warsaw from September 10th to September 12th 1973 in connection with the Extraordinary General Assembly of the IAD It was arranged by IAD Symposium No 35 and the Scientific Organising Committee consisted of A G Mashevitch Chairman A V Tutukov Secretary H M van Horn N Dallaporta J P Ostriker B Paczynski G Ruben E Schatzman R J Tayler and A Weigert This volume contains the full texts of all of the invited papers presented at the Symposium apart from that delivered by R P Kraft which is published in abstract because it is appearing in full elsewhere In addition the short communications given at the Symposium are published in abstract I attempted to take down all of the discussion as it occurred and all contributors to the discussion were asked to provide copies of their remarks From these sources an edited version of the discussion has been produced As the final version has not been seen by the contributors I should be held responsible for all errors At Warsaw some of the short communications did not immediately follow the invited paper to which they referred In the printed version they and any discussion relating to them are placed in the most logical position A small number of short communications which were circulated in abstract at Warsaw but which were not delivered orally are also included in the published version      **Stellar Instability and Evolution** P. Ledoux, A. Noels, A.W. Rodgers, 1974-11-30 The XXth meeting of the IAU in Australia in 1973 made the venue for the IAU Symposium No 59 on Stellar Instability and Evolution at Mount Stromlo Observatory on August 16 18 a very appropriate one Many of the current and former staff of Mount Stromlo Observatory operated by the Australian National University have specialized in the study of variable stars and it was with considerable pleasure that Mount Stromlo Observatory accepted the responsibility of hosting and making the local arrangements for IAU Symposium No 59 The Scientific Organizing Committee was particularly active in formulating the program and comprised Drs N Baker P Demarque M Feast G Herbig I Iben P Ledoux J Ostriker and E Schatzman The aim of the Committee was to integrate the review and contributed papers on the particular instability mechanisms involved their observational manifestations and their relation to the internal structure of the star as inferred from its evolutionary history The Local Organizing Committee consisted of Miss P Petrie and A W Rodgers      General Relativistic Instability Supernovae Chris Nagele, 2025-02-06 This book provides a comprehensive description of advances in the study of general relativistic instability supernovae These supernovae if observed would provide direct evidence of the existence of supermassive stars thus confirming that massive seed black holes played a crucial role in the assembly of observed high redshift quasars The book begins with a review of the history of and motivation for the study of supermassive stars Supermassive stars are most likely to exist in the high redshift universe and are thus difficult to find One possibility for observing these stars is the thermonuclear explosion occurring at the end of the

lives of some supermassive stars In order to model these explosions the author first performs evolutionary simulations with a post Newtonian stellar evolution code HOSHI evolves these simulations to the general relativistic radial instability locating the instability using a normal mode analysis of the radial perturbations of the star in general relativity Next when the star becomes unstable the author simulates the dynamics of the explosion or collapse to a black hole by transporting the model to a general relativistic Lagrangian hydrodynamics code with a nuclear network The two main explosion mechanisms for these stars are the explosive alpha process and the CNO cycle and rapid proton capture process If the model explodes the nucleosynthetic ejecta and the light curve are computed For multiple types of supermassive stars it is found that general relativistic instability supernovae are a general consequence of the existence of supermassive stars which are destabilized during their evolution by general relativity These results run contrary to those of previous papers which found that these types of explosions were much rarer The results are compared to existing James Webb Space Telescope data and prospects for observation using future instruments are discussed The book is intended for physics and astronomy researchers interested in the origin and growth of massive black holes the evolution and explosions of massive stars and supernovae and chemical enrichment of the early universe *Stellar Physics* G.S. Bisnovatyi-Kogan, 2001-01-26 *Stellar Physics* is a rather unique book among the growing literature on star formation and evolution Not only does the author a leading expert in the field give a very thorough description of the current knowledge about stellar physics but he handles with equal care the many problems that this field of research still faces A bibliography with well over 650 entries makes this book an unparalleled source of references Fundamental Concepts and Stellar Equilibrium is the first of two volumes and can be read as can the second volume as an independent work It provides an extensive introduction into all physical processes that play a role in star formation and evolution The basic equations describing stellar equilibrium are discussed where attention is paid to both the theoretical and the numerical aspects **Theory of Rotating Stars. (PSA-1), Volume 1** Jean-Louis

Tassoul, 2015-03-08 Ever since the first observations of sunspots in the early seventeenth century stellar rotation has been a major topic in astronomy and astrophysics Jean Louis Tassoul synthesizes a large number of theoretical investigations on rotating stars Drawing upon his own research Professor Tassoul also carefully critiques various competing ideas In the first three chapters the author provides a short historical sketch of stellar rotation the main observational data on the Sun and other stars on which the subsequent theory is based and the basic Newtonian hydrodynamics used to study rotating stars Following a discussion of some general mechanical properties of stars in a state of permanent rotation he reviews the main techniques for determining the structure of a rotating star and its stability with respect to infinitesimal disturbances Since the actual distribution of angular momentum within stars is still unknown Professor Tassoul considers various models of angular momentum as well as of meridional circulation He devotes the rest of his study to the problems concerning various groups of stars and stages in stellar evolution Originally published in 1979 The Princeton Legacy Library uses the latest print

on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905

**Theoretical Division Annual Report** Peter A. Carruthers, 1976      **Nuclear Science Abstracts**, 1976      *Flare Stars in Star Clusters, Associations, and the Solar Vicinity* International Astronomical Union. Symposium, 1990-06-30 Some 70 papers present the flare star problem from both a physical and evolutionary aspect and represent an interaction between investigators working on flare stars in clusters and associations and those working on the UV Ceti stars in solar vicinity The variety of perspectives reveal a physical similarity among several non stable phenomena and suggest that the different manifestations of stellar activity result from the release of some unknown kind of energy in the outer layers of young stars The papers deal not only with different aspects of flare stars but also with such related objects as T Tauri stars flares and Herbig Haro objects

Annotation copyrighted by Book News Inc Portland OR      **Literature 1974, Part 2** S. Böhme, U. Esser, W. Fricke, U. Güntzel-Lingner, F. Henn, D. Krahn, H. Scholl, G. Zech, 2013-11-11 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 12 contains literature published in 1974 and received before March 15 1975 some older literature which was received late and which is not recorded in earlier volumes is also included Beginning with volume 11 some minor changes of our classification scheme have been made 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

**Linear Isentropic Oscillations of Stars** Paul Smeyers, Tim Van Hoolst, 2011-01-18 This book surveys the theory of free linear isentropic oscillations in spherically symmetric gaseous equilibrium stars from basic concepts to asymptotic representations of normal modes and with slow period changes in rapidly evolving pulsating stars

**Wolf-Rayet Stars: Observations, Physics, Evolution** C. de Loore, A.J. Willis, 2012-12-06 The formative ideas for this symposium originated in 1978 at the IAU Symposium No 83 on Mass Loss and Evolution of O type Stars held at Qualicum Beach Vancouver Island Canada WR stars

generally figure prominently in O star meetings and vice versa Following general approval by the IAU Executive Committee the initial ideas were cemented at a subsequent meeting IAU Colloquium No 59 on The Effects of Mass Loss on Stellar Evolution held at Miramare Trieste Italy in 1980 which was attended by the majority of the present Scientific Organising Committee and at which meeting the outline programme for this symposium was formulated 1981 was considered an appropriate year in which to hold a meeting on WR stars since the last IAU Symposium devoted to this stellar class had been held a decade earlier in Buenos Aires IAU Symposium No 49 and during this intervening period a wealth of new observational material had been obtained for WR stars together with significant advances on the theoretical front The venue for this symposium was chosen from the requirement which can be inferred from the above that a meeting on hot stars take place in an appropriate sunny climate and followed upon the excellent suggestion of Dr C Firmani to hold the symposium in Mexico

**A Selected Bibliography on Helioseismology** J. W. Leibacher, 1985 Structure and Evolution of Single and Binary Stars C. de Loore, C. Doom, 2012-12-06 Classical stellar evolution theories have undergone some drastic changes in recent decades New insights into the development of stellar interiors were obtained from studying stars in various stages of their lives as well as with the help of fast computers which gave a boost to the branch of numerical modelling of stellar structure and evolution This book is divided into two parts The first part deals with the general aspects of stellar structure and evolution including a chapter on numerical modelling The second part deals with specific evolutionary aspects of single and binary stars with a variety of masses The last chapter gives several models of stars with specific masses The book is intended as an introduction for students as well as a reference for researchers

**Physical Processes in Circumstellar Disks Around Young Stars** Paulo J. V. Garcia, 2011-05-15 Circumstellar disks are vast expanses of dust that form around new stars in the earliest stages of their birth Predicted by astronomers as early as the eighteenth century they weren't observed until the late twentieth century when interstellar imaging technology enabled us to see nascent stars hundreds of light years away Since then circumstellar disks have become an area of intense study among astrophysicists largely because they are thought to be the forerunners of planetary systems like our own the possible birthplaces of planets This volume brings together a team of leading experts to distill the most up to date knowledge of circumstellar disks into a clear introductory volume Understanding circumstellar disks requires a broad range of scientific knowledge including chemical processes the properties of dust and gases hydrodynamics and magnetohydrodynamics radiation transfer and stellar evolution all of which are covered in this comprehensive work which will be indispensable for graduate students seasoned researchers or even advanced undergrads setting out on the study of planetary evolution

**The Formation and Early Evolution of Stars** Norbert S. Schulz, 2012-05-24 Starburst regions in nearby and distant galaxies have a profound impact on our understanding of the early universe This new substantially updated and extended edition of Norbert Schulz's unique book From Dust to Stars describes complex physical processes involved in the creation and early evolution of stars It

illustrates how these processes reveal themselves from radio wavelengths to high energy X rays and gamma rays with special reference towards high energy signatures Several sections devoted to key analysis techniques demonstrate how modern research in this field is pursued and new chapters are introduced on massive star formation proto planetary disks and observations of young exoplanets Recent advances and contemporary research on the theory of star formation are explained as are new observations specifically from the three great observatories of the Spitzer Space Telescope the Hubble Space Telescope and the Chandra X Ray Observatory which all now operate at the same time and make high resolution space based observing in its prime As indicated by the new title two new chapters have been included on proto planetary disks and young exoplanets Many more colour images illustrate attractive old and new topics that have evolved in recent years The author gives updates in theory fragmentation dust and circumstellar disks and emphasizes and strengthens the targeting of graduate students and young researchers focusing more on computational approaches in this edition

*The Rotation of Sun and Stars* Jean-Pierre Rozelot, 2009-01-08 The Sun and stars rotate in different ways and at different velocity rates The knowledge of how they rotate is important in understanding the formation and evolution of stars and their structure The closest star to our Earth the Sun is a good laboratory to study in detail the rotation of a G star and allows to test new ideas and develop new techniques to study stellar rotation More or less massive more or less evolved objects however can have a very different rotation rate structure and history In recent years our understanding of the rotation of the Sun has greatly improved The Sun has a well known large scale rotation which can be measured thanks to visible features across the solar disk such as sunspots or via spectroscopy In addition several studies cast light on differential rotation in the convective zone and on meridional circulation in the radiative zone of the Sun Even the rotation of the core of the Sun can now be studied thanks to various methods such as dynamics of the gravitational moments and of course helioseismology through g modes analysis Moreover the magnetic field is strongly linked to the matter motions in the solar plasma The solar magnetic field can be measured only at the surface or in the upper layers It is the product of the internal dynamo or of the local dynamos if they exist in any case magnetic field and rotation cannot thus be separated

**Rotating Relativistic Stars** John L. Friedman, Nikolaos Stergioulas, 2013-02-11 This volume pulls together more than forty years of research to provide graduate students and researchers in astrophysics gravitational physics and astronomy with the first self contained treatment of the structure stability and oscillations of rotating neutron stars

Starbursts Triggers, Nature, and Evolution Bruno Guiderdoni, 2013-11-11 Starbursts are regions of unusually rapid star formation often located in the central parts of galaxies They differ from more normal regions of star formation in terms of the throughput of mass and the rapidity with which the gas is consumed In the last twenty years extensive observational data at most wavelengths have become available on starbursts but many important issues remain to be addressed observationally as well as theoretically How are strong episodes of star formation triggered What is the quantity of gas converted into stars during bursts What is the initial mass

function of stars in these events How does the feedback from stars influence the interstellar medium and self regulate star formation What is the subsequent chemical and photometric evolution How do starbursts rule the formation and evolution of galaxies In recent years many observational data at different wavelengths optical radio infrared X ray have become available However these observations are still fragmentary in the sense that different classes of objects have been observed in different ways and the coverage is not consistently deep or complete As a consequence an overall observational picture of starburst galaxies is missing and theoretical understanding and modelling have remained highly tentative The purpose of the school Starbursts Triggers Nature and Evolution was to gather theorists and observers with complementary approaches to the starburst phenomenon in order to summarize the state of the art of the observations and models emphasizing the consistency of the various viewpoints



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