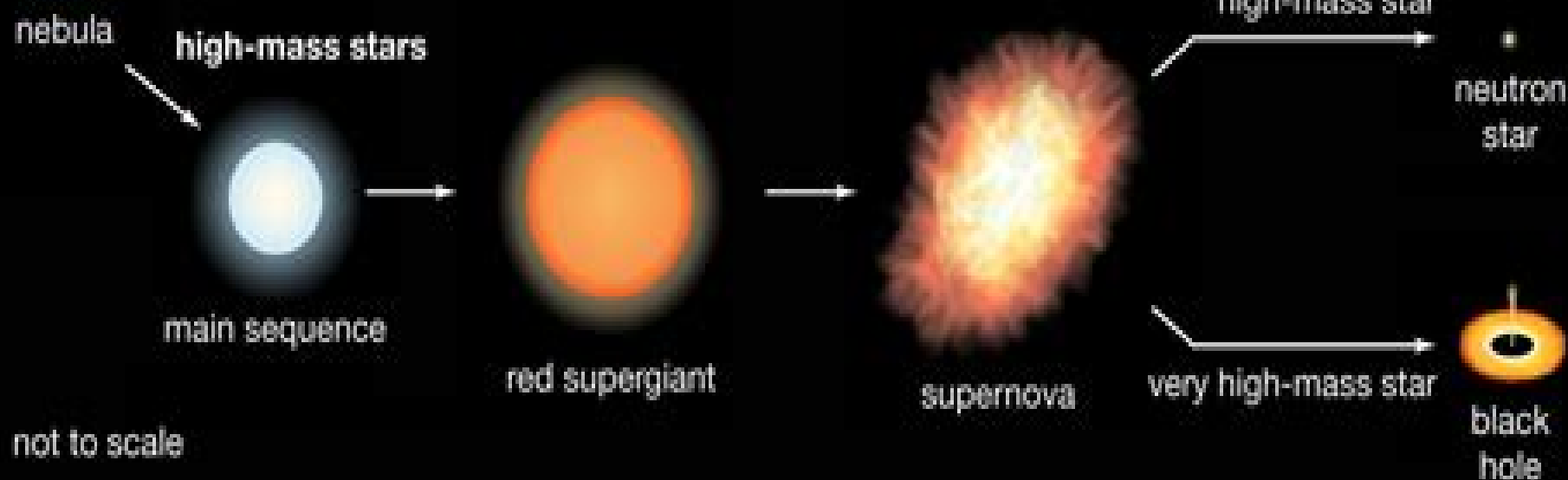


Stellar evolution

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



high-mass stars



not to scale

Stellar Instability And Evolution

Chris Nagele



Stellar Instability And Evolution:

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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 Masevitch, 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

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

Nuclear Science Abstracts, 1976

Stellar Physics G.S. Bisnovaty-Kogan, 2013-06-29 Stellar Physics is a rather unique book in 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 Stellar Evolution and Stability is the second volume and can be read as can the first volume as a largely independent work It traces in great detail the evolution of the protostar towards the main sequence and beyond this to the last stage of stellar evolution with the corresponding vast range from white dwarfs to the mighty supernovae explosions and blackhole formation The book concludes with special chapters on the dynamical thermal and pulsing stability of stars

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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

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

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

This book delves into Stellar Instability And Evolution. Stellar Instability And Evolution is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Stellar Instability And Evolution, encompassing both the fundamentals and more intricate discussions.

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 4. In chapter 3, this book will examine the practical applications of Stellar Instability And Evolution in daily life. The third chapter will showcase real-world examples of how Stellar Instability And Evolution can be effectively utilized in everyday scenarios.
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 6. In chapter 5, this book will draw a conclusion about Stellar Instability And Evolution. This chapter will summarize the key points that have been discussed throughout the book.
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