

Protostar looks like a star, but its core is not yet hot enough for nuclear fusion.

Main sequence stars fuse hydrogen atoms to helium atoms in their cores.

As the Large Red Giant condenses, it heats up even further, burning the last of its hydrogen and causing the star's outer layers to expand further.

A Supernova can be triggered

1. by the sudden re-ignition of nuclear fusion in a degenerate star.
2. by the gravitational collapse of the core of a massive star.

Protons and electrons left after a supernova are forced to combine, to produce a very dense neutron star.

If the mass is significantly greater, the gravity will be so strong that the neutron star will shrink further to become a black hole.

Nebula

Protostar

Large Star

Red Supergiant

Supernova

Neutron Star *Black Hole*

Protostar

Small Star

Red Giant

Planetary Nebula

White Dwarf

A white Dwarf becomes a black dwarf when it stops emitting light.

A Red Giant is formed when a star runs out of hydrogen at its core and starts fusing hydrogen into helium outside the core, releasing energy and expanding the star.

Large Red Giants are hot enough to turn the helium at their core into heavy elements like carbon.

Once the star runs out of fuel, it collapses under gravity, and the outer layers are ejected into the vastness of space.

The remains of the star are devoid of fuel. They consist of degenerate matter with a very high density.

Birth And Evolution Of Massive Stars And Stellar Groups

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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

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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 **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 *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

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 up dated 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

Luminous Stars and Associations in Galaxies International Astronomical Union. Symposium, 1986-06-30 Proceedings of the 116th Symposium of the International Astronomical Union held at Porto Heli Greece May 26 31 1985

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

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

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