

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

Nebula

Protostar

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



Protostor

Large Star



Small Star

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.

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.

Protons and electrons

left after a supernova

to produce a very dense neutron star.

are forced to combine,



Red Supergiant



Red Giant

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



- by the sudden re-ignition of nuclear fusion in a degenera
- by the gravitational collap the core of a massive star.



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

Supernova



Neutron Star



Planetary Nebula



White Dwarf

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

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

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

Stellar Formation

Amos Harpaz

Stellar Formation:

Stellar Formation V C Reddish, 2013-10-22 Stellar Formation focuses on the properties distributions characteristics and formation of stars and galaxies The manuscript first offers information on locations of star formation as well as the distribution of interstellar gas clouds and globules spatial relationships between young stars and interstellar matter and distribution of young stars The book also tackles frequency distribution of stellar masses and aggregates of stars The text ponders on the frequency distribution of cloud masses rate and environment of star formation and cloud structure in the interstellar gas The publication also examines the fragmentation of clouds into protostars and the frequency distribution of protostar masses rate of formation of stars and evolution of galaxies Discussions focus on random fragmentation gravitational turbulence and fragmentation induced by molecule formation The manuscript is a vital reference for scientists and readers interested in stellar formation The Physics of Star Formation and Early Stellar Evolution Charles J. Lada, N.D. Kylafis, 2012-12-06 The origin of stars is one of the principle mysteries of nature During the last two decades advances in technology have enabled more progress to be made in the guest to understand stellar origins than at any other time in history The study of star formation has developed into one of the most important branches of mod ern astrophysical research A large body of observational data and a considerable literat ure now exist concerning this topic and a large community of international astronomers and physicists devote their efforts attempting to decipher the secrets of stellar birth Yet the young astronomerjphysicist or more advanced researcher desiring to obtain a basic background in this area of research must sift through a very diverse and sometimes bewildering literature A literature which includes research in many disciplines and sub discip1ines of classical astrophysics from stel lar structure to the interstellar medium and encompasses the entire range of the electromagnetic spectrum from radio to gamma rays Often the reward of a suc cessful foray through the current literature is the realization that the results can be obsolete and outdated as soon as the ink is dry in the journal or the conference proceeding in which they are published **Principles of Star Formation** Peter Bodenheimer, 2011-07-10 Understanding star formation is one of the key fields in present day astrophysics This book treats a wide variety of the physical processes involved as well as the main observational discoveries with key points being discussed in detail The current star formation in our galaxy is emphasized because the most detailed observations are available for this case The book presents a comparison of the various scenarios for star formation discusses the basic physics underlying each one and follows in detail the history of a star from its initial state in the interstellar gas to its becoming a condensed object in equilibrium Both theoretical and observational evidence to support the validity of the general evolutionary path are presented and methods for comparing the two are emphasized The author is a recognized expert in calculations of the evolution of protostars the structure and evolution of disks and stellar evolution in general This book will be of value to graduate students in astronomy and astrophysics as well as to active researchers in the field Observer's Guide to Stellar

Evolution Mike Inglis, 2012-12-06 Stellar evolution the birth development and death of stars is central to our current understanding of astronomy but surprisingly the majority of amateur astronomers lack a full understanding of the physics of stars Current books on the market tend to be highly theoretical and off putting in Observer's Guide to Stellar Evolution Mike Inglis brings this subject to life in a unique way By combining a step by step introduction with suggestions for practical observations of stars at different stages in their evolution amateur astronomers regardless of their current level of knowledge will find this book fascinating and informative Accessible to every amateur astronomer regardless of background knowledge Step by step introduction to the theory of stellar evolution Includes many examples of stars at different stages in their evolution that the reader can observe for him herself Mathematics is made accessible by being presented in boxes that readers can skip over if they prefer **Stellar Evolution** Steff Jaywan, Stellar evolution refers to the process by which a star changes over the course of time This field of astrophysics studies the formation life and death of stars which involves a series of complex physical processes and transformations. Here we outline the key stages and concepts in stellar evolution Stars form from giant molecular clouds regions rich in gas and dust Under the influence of gravity these clouds collapse and fragment leading to the formation of dense cores When a core reaches a critical density nuclear fusion ignites in its center giving birth to a protostar Once nuclear fusion stabilizes converting hydrogen into helium in the core the star enters the main sequence phase This is the longest stage in a star s life where it remains in hydrostatic equilibrium with gravitational forces balanced by radiation pressure from fusion The duration of this phase depends on the star s mass Low mass stars such as red dwarfs can remain on the main sequence for tens to hundreds of billions of years Intermediate mass stars like our Sun stay on the main sequence for about 10 billion years High mass stars such as blue giants have much shorter main sequence lifespans ranging from a few million to tens of millions of years *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 Stellar Structure and Evolution Rudolf researchers focusing more on computational approaches in this edition Kippenhahn, Alfred Weigert, Achim Weiss, 2012-10-31 This long awaited second edition of the classical textbook on Stellar Structure and Evolution by Kippenhahn and Weigert is a thoroughly revised version of the original text Taking into account modern observational constraints as well as additional physical effects such as mass loss and diffusion Achim Weiss and Rudolf Kippenhahn have succeeded in bringing the book up to the state of the art with respect to both the presentation of stellar physics and the presentation and interpretation of current sophisticated stellar models. The well received and proven pedagogical approach of the first edition has been retained The book provides a comprehensive treatment of the physics of the stellar interior and the underlying fundamental processes and parameters. The models developed to explain the stability dynamics and evolution of the stars are presented and great care is taken to detail the various stages in a star s life Just as the first edition which remained a standard work for more than 20 years after its first publication the second edition will be of lasting value not only for students but also for active researchers in astronomy and astrophysics The Formation of Stars Steven W. Stahler, Francesco Palla, 2008-07-11 This book is a comprehensive treatment of star formation one of the most active fields of modern astronomy. The reader is guided through the subject in a logically compelling manner Starting from a general description of stars and interstellar clouds the authors delineate the earliest phases of stellar evolution They discuss formation activity not only in the Milky Way but also in other galaxies both now and in the remote past Theory and observation are thoroughly integrated with the aid of numerous figures and images In summary this volume is an invaluable resource both as a text for physics and astronomy graduate students and as a reference for professional scientists Stellar **Evolution** Amos Harpaz, 1993-06-15 This book addresses the fascinating subject of astrophysics from its theoretical basis to predominant research conducted in the field today An accomplished researcher in the field and a well known expositor the author strikes a balance that allows the serious reader to appreciate the current issues without previous knowledge of the Physics of Stellar Evolution and Cosmology Howard S. Goldberg, Michael D. Scadron, 1982 subject Astron

Unsolved Problems in Stellar Evolution Space Telescope Science Institute (U.S.),2000-04-13 The most comprehensive and up to date survey available on stellar structure and evolution with a special emphasis on currently unsolved problems

Binary and Multiple Stars as Tracers of Stellar Evolution Zdenek Kopal, Jürgen H. Rahe, 2012-12-06 Proceedings of the 69th Colloquium of the International Astronomical Union held in Bamberg F R G August 31 September 3 1981

Advances in Stellar Evolution Robert T. Rood, Alvio Renzini, 1997-06-26 An understanding of how stars evolve is central to astrophysics The basic theory is well established However the subject has undergone a renaissance in recent years as powerful computers have become widely available and allowed complex evolutionary models to be developed and compared in great detail with observations from the latest instruments This timely volume presents the review articles from an

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