

Astronomy Ranking Task: Star Evolution & Lookback Time

Exercise #1

Description: Imagine that the four stars listed below all became Main Sequence (MS) stars at exactly the same time 10 billion years ago but in different locations of the universe.

Cosmo Star is an O spectral class star with a MS lifetime of 3 million years. Its life will eventually end as a SN type II and become a black hole. Cosmo Star is located in a galaxy 10 billion light years (ly) from Earth.

Ollie Star is a K spectral class star with a MS lifetime of 30 billion years. Its life will eventually end as a slowly cooling white dwarf. Ollie Star is located in the MW at a distance of 10,000 ly from Earth.

Sullivan Star is an F spectral class star that is part of a binary star system. It has a MS lifetime of 5 billion years. Its life will eventually end in a SN type I that completely destroys Sullivan Star. Sullivan Star is located in a galaxy 6 billion ly from Earth.

Sliver Star is a B spectral class star with a MS lifetime of 20 million years. Its life will eventually end as a SN type II and become a neutron star. Sliver is located in the MW at a distance of 40,000 ly from Earth.

A. Ranking Instructions Rank the stars (from first to last) based on when they became main sequence stars.

Ranking Order: First 1 2 3 4 Last

Or, all the stars became main sequence stars at the same time. ☐ (indicate with check mark).

Carefully explain your reasoning for ranking this way:

B. Ranking Instructions Rank the stars (from first to last) based on when they reach(ed) their final end state.

Ranking Order: First 1 2 3 4 Last

Or, all the stars reach(ed) their final end state at the same time. ☐ (indicate with check mark).

Carefully explain your reasoning for ranking this way:

Astronomy Ranking Task Star Evolution Lookback Time

Robert R. Redfield



Astronomy Ranking Task Star Evolution Lookback Time:

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Stellar Evolution, and Its Relation to Geological Time James Croll,1889 **Evolution of Stars and Stellar Populations** Maurizio Salaris,Santi Cassisi,2005-12-13 Evolution of Stars and Stellar Populations is a comprehensive presentation of the theory of stellar evolution and its application to the study of stellar populations in galaxies Taking a unique approach to the subject this self contained text introduces first the theory of stellar evolution in a clear and accessible manner with particular emphasis placed on explaining the evolution with time of observable stellar properties such as luminosities and surface chemical abundances This is followed by a detailed presentation and discussion of a broad range of related techniques that are widely applied by researchers in the field to investigate the formation and evolution of galaxies This book will be invaluable for undergraduates and graduate students in astronomy and astrophysics and will also be of interest to researchers working in the field of Galactic extragalactic astronomy and cosmology comprehensive presentation of stellar evolution theory introduces the concept of stellar population and describes stellar population synthesis methods to study ages and star formation histories of star clusters and galaxies presents stellar evolution as a tool for investigating the evolution of galaxies and of the universe in general **Structure and Evolution of Stars** Martin Schwarzschild,2015-12-08 With the development of nuclear physics the theory of the stellar interior entered a new phase Many new investigations have been conducted and the results published in a variety of specialized media This book brings these results together in a single volume and summarizes the present status of the theory of stellar evolution Originally published in 1958 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 *Understanding Stellar Evolution* Henny J. G. L. M. Lamers, Emily M. Levesque, 2018-02-28

Understanding Stellar Evolution is based on a series of graduate level courses taught at the University of Washington since 2004 and is written for physics and astronomy students and for anyone with a physics background who is interested in stars. It describes the structure and evolution of stars with emphasis on the basic physical principles and the interplay between the different processes inside stars such as nuclear reactions, energy transport, chemical mixing, pulsation, mass loss, and rotation. Based on these principles, the evolution of low and high mass stars is explained from their formation to their death. In addition to homework exercises for each chapter, the text contains a large number of questions that are meant to stimulate the understanding of the physical principles. An extensive set of accompanying lecture slides is available for teachers in both Keynote R and PowerPoint R formats.

From Dust To Stars Norbert S. Schulz, 2005-02-14. Studies of stellar formation in galaxies have a profound impact on our understanding of the present and the early universe. The book describes complex physical processes involved in the creation of stars and during their young lives. 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.

Birth, Evolution And Death Of Stars James Lequeux, 2013-08-22. It has been known for a long time that stars are similar to our Sun. But it was only in 1810 that they were shown to be made of an incandescent gas. The chemical composition of this gas began to be determined in 1860. In 1940 it was demonstrated that the energy radiated by the stars is of thermonuclear origin. How stars form from interstellar matter and how they evolve and die was understood only recently with our knowledge still incomplete. It was also realized recently that close double stars present a wide variety of extraordinary phenomena which are far from being completely explored. This book explains all these aspects and also discusses how the evolution of stars determine that of galaxies. The most interesting observations are illustrated by spectacular images while the theory is explained as simply as possible without however avoiding some mathematical or physical developments when they are necessary for a good understanding of what happens in stars. Without being a textbook for specialists, this book can be profitably read by students or amateurs possessing some basic scientific knowledge who would like to be initiated in depth to the fascinating world of stars. The author, an emeritus astronomer of the Paris Observatory, worked in various domains of astronomy connected with the subject of this book: interstellar matter and evolution of stars and galaxies. He directed the Marseilles observatory from 1983 to 1988 and served for fifteen years as Chief Editor of the professional European journal *Astronomy Astrophysics*. He has written many articles and books about physics and astronomy at different levels. *Stellar Evolution and Its Relations to Geological Time* James Croll, 1889 *Aspects of Stellar Evolution* Arthur Beer, Peter Beer, 1966-04 *Observational Tests of the Stellar Evolution Theory* International Astronomical Union, 1984-06-30

Proceedings of IAU Symposium No 105 held in Geneva Switzerland September 12-16 1983 **Stars and Stellar Evolution**

Klaas Sjoerds de Boer, Wilhelm Seggewiss, 2008 The diverse forms that stars assume in the course of their lives can all be derived from the initial conditions the mass and the original chemical composition In this textbook Stars and Stellar Evolution the basic concepts of stellar structure and the main roads of stellar evolution are described First the observable parameters are presented which are based on the radiation emerging from a stellar atmosphere Then the basic physics is described such as the physics of gases radiation transport and nuclear processes followed by essential aspects of modelling the structure of stars After a chapter on star formation the various steps in the evolution of stars are presented This leads us to brown dwarfs to the way a star changes into the red giant state and numerous other stages of evolution and ultimately to the stellar ashes such as white dwarfs supernovae and neutron stars Stellar winds stellar rotation and convection all influence the way a star evolves The evolution of binary stars is included by using several canonical examples in which interactive processes lead to X ray binaries and supernovae of type Ia Finally the consequences of the study of stellar evolution are tied to observed mass and luminosity functions and to the overall evolution of matter in the universe The authors aim at reaching an understanding of stars and their evolution by both graduate students and astronomers who are not themselves investigating stars To that end numerous graphs and sketches among which the Hertzsprung Russell diagram is the dominant one help trace the ways of stellar evolution Ample references to specialised review articles as well as to relevant research papers are included

Observational Tests of the Stellar Evolution Theory A. Maeder, Alvio Renzini, 1984-07-14 If simple perfect laws uniquely rule the universe should not pure thought be capable of uncovering this perfect set of laws without having to lean on the crutches of tediously assembled observations True the laws to be discovered may be perfect but the human brain is not Left on its own it is prone to stray as many past examples sadly prove In fact we have missed few chances to err until new data freshly gleaned from nature set us right again for the next steps Thus pillars rather than crutches are the observations on which we base our theories and for the theory of stellar evolution these pillars must be there before we can get far on the right track These words written by Martin Schwarzschild in his famous book entitled Structure and Evolution of the Stars 1958 remind us how necessary and fruitful is the interplay of stellar evolution theory and observations Clearly observations are the great censor by their possibility of confirming or contradicting theoretical constructions In addition they have a driving role new and sometimes unexpected facts may give rise to progressive ideas and stimulate further theoretical developments In turn theory in its major role of sifting out and placing the facts in a logical sequence based on physical laws must also be predictive and indicate new and pertinent observations to be undertaken

Stellar Evolution and Its Relations to Geological Time James Croll, 2025-03-29 Explore the fascinating intersection of astrophysics and geology in James Croll's Stellar Evolution and its Relations to Geological Time This seminal work delves into the profound connections between the life cycles of stars and the vast expanse of Earth's history Croll investigates the astronomical influences on geological processes offering insights into the rhythms of geological time Journey through the

science of stellar evolution and its impact on our planet from the formation of ecosystems to the grand sweep of earth history A classic exploration of the cosmos and our place within it this book appeals to anyone interested in astronomy geology and the enduring mysteries of the natural world Discover the intriguing relationships between stellar phenomena and the geological forces that have shaped our planet over eons This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant *The Origin of Stars and Planetary Systems* Charles J. Lada,N.D. Kylafis,1999-07-31 The Origin of Stars and Planetary Systems is a collection of tutorial reviews that critically and systematically discuss the current state of our knowledge of star formation and early stellar evolution from the genesis of giant molecular clouds to the birth of young stars and their surrounding planetary systems The chapters are written at the graduate student level by a group of twenty internationally distinguished scientists The emphasis is on fundamentals rather than recent research results The book thus provides a rigorous treatment of the basic empirical and theoretical foundations of modern star formation research The book is a unique reference based on the authors own pioneering research Readership Primary or supplementary text for graduate courses on star formation Basic reference for professional scientists needing a solid background in the area **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 **Formation and Evolution of Low Mass Stars** A.K. Dupree,Maria Teresa Vaz Torrão Lago,1988-09-30 Proceedings of the NATO Advanced Study Institute Viano do Castelo Portugal September 21 October 2 1987 *The Study of Stellar Evolution (etc.)* George Ellery Hale,1908

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