

2 The stellar initial mass function [32 points]

The two most popular stellar initial mass functions (IMFs) are the Kroupa and Salpeter IMFs. The Salpeter IMF has the form

$$\frac{dn}{dM} = kM^{-2.35},$$

with M the stellar mass in solar masses (M_{\odot}), n the number density of stars, and k a constant. Hence dn/dM is the number density of stars with masses between M and $M + dM$. The Kroupa IMF has the same powerlaw slope at $M > 0.5M_{\odot}$, but below $0.5M_{\odot}$ the power-law slope is -1.3, and thus

$$\frac{dn}{dM} = k_2M^{-1.30}.$$

This function is called a broken powerlaw. Assume both IMFs are only valid between 0.1 and 100 M_{\odot} , and no stars are formed outside this range.

a. [6 points] Given that the two powerlaws of the Kroupa IMF connect at $0.5M_{\odot}$, write k_2 as a function of k .

As discussed in class the most massive stars still alive dominate the light, and thus, it is extremely challenging to observe the light originating from lower mass stars. In order to

Stellar Initial Mass Function

Victor M. Corman



Stellar Initial Mab Function:

New Light on Galaxy Evolution Ralph Bender, Roger L. Davies, 1996-03-31 The study of the evolution of galaxies has made remarkable progress in recent years and is currently undergoing a transformation arising from the application of new observational and theoretical tools Twenty one invited reviews twenty six contributed papers and 137 poster papers cover the wide variety of recent developments present new insights and demonstrate the rapid increase in our knowledge about galaxy evolution and formation

Air Force Magazine, 1998-07

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The Molecular Biology of Cancer Stella Pelengaris, Michael Khan, 2013-03-13 The Molecular Biology of Cancer Stella Pelengaris each chapter builds on concepts learned in previous chapters with a list of key outstanding questions remaining in the field suggestions for further reading and questions for student review All chapters contain text boxes that provide additional and relevant information Key highlights are listed below An overview of the cancer cell and important new concepts Selected human cancers lung breast colorectal prostate renal skin cervix and hematological malignancies Key cellular processes in cancer biology including a traditionally important areas such as cell cycle control growth regulation oncogenes and tumour suppressors apoptosis as well as b more highly topical areas of apoptosis telomeres DNA damage and repair cell adhesion angiogenesis immunity epigenetics and the proteasome Clinical oncology In depth coverage of important concepts such as screening risk of cancer and prevention diagnoses managing cancer patients from start to palliative care and end of life pathways Chapters highlighting the direct links between cancer research and clinical

applications New coverage on how cancer drugs are actually used in specific cancer patients and how therapies are developed and tested Systems Biology and cutting edge research areas covered such as RNA interference RNAi Each chapter includes key points chapter summaries text boxes and topical references for added comprehension and review Quotations have been used in each chapter to introduce basic concepts in an entertaining way Supported by a dedicated website at <http://www.blackwellpublishing.com/pelengaris> We should list the great reviews we got for first edition which are on the back of the 2nd edition A capturing comprehensive clearly written and absolutely accurate introduction into cancer biology This book deserves great praise for the readable presentation of this complex field the true synthesis of bench and bedside approaches is marvelously achieved Christian Schmidt Molecular Cell Chapters address the issues of cancer diagnosis treatment and patient care and set the book apart from general molecular biology references This book is applicable to both graduate and undergraduate students and in the context of a research laboratory this book would be an excellent resource as a reference guide for scientists at all levels V Emuss Institute of Cancer Research London Also from the first edition Pelengaris Khan and the contributing authors are to be applauded The Molecular Biology of Cancer is a comprehensive and readable presentation of the many faces of cancer from molecular mechanisms to clinical therapies and diagnostics This book will be welcomed by neophyte students established scientists in other fields and curious physicians Dean Felsher Stanford University *Building Galaxies: From The Primordial Universe To The Present, Procs Of The Sixth Rencontres De Moriond* Veronique Cayatte, Bruno Guiderdoni, Francois Hammer, Trinh Xuan Thuan, J Tran Thanh Van, 2000-07-17 These proceedings provide a summary of the state of the art in the understanding of physical processes which control galaxy formation Many topics are discussed which present the latest observational results dust extinction the role of AGNs in the formation of massive galaxies etc How future instruments such as NGST ALMA FIRST KMT and SKAI can help to resolve these questions is also addressed The book will serve as a useful reference in the field for many years to come *Practical Data Science with Hadoop and Spark* Ofer Mendelvitsh, Casey Stella, Douglas Eadline, 2016-12-08 The Complete Guide to Data Science with Hadoop For Technical Professionals Businesspeople and Students Demand is soaring for professionals who can solve real data science problems with Hadoop and Spark Practical Data Science with Hadoop and Spark is your complete guide to doing just that Drawing on immense experience with Hadoop and big data three leading experts bring together everything you need high level concepts deep dive techniques real world use cases practical applications and hands on tutorials The authors introduce the essentials of data science and the modern Hadoop ecosystem explaining how Hadoop and Spark have evolved into an effective platform for solving data science problems at scale In addition to comprehensive application coverage the authors also provide useful guidance on the important steps of data ingestion data munging and visualization Once the groundwork is in place the authors focus on specific applications including machine learning predictive modeling for sentiment analysis clustering for document analysis anomaly detection and natural language processing NLP This guide provides a strong

technical foundation for those who want to do practical data science and also presents business driven guidance on how to apply Hadoop and Spark to optimize ROI of data science initiatives Learn What data science is how it has evolved and how to plan a data science career How data volume variety and velocity shape data science use cases Hadoop and its ecosystem including HDFS MapReduce YARN and Spark Data importation with Hive and Spark Data quality preprocessing preparation and modeling Visualization surfacing insights from huge data sets Machine learning classification regression clustering and anomaly detection Algorithms and Hadoop tools for predictive modeling Cluster analysis and similarity functions Large scale anomaly detection NLP applying data science to human language

Beyond Λ CDM Sownak Bose,2018-08-02 This book employs computer simulations of artificial Universes to investigate the properties of two popular alternatives to the standard candidates for dark matter DM and dark energy DE It confronts the predictions of theoretical models with observations using a sophisticated semi analytic model of galaxy formation Understanding the nature of dark matter DM and dark energy DE are two of the most central problems in modern cosmology While their important role in the evolution of the Universe has been well established namely that DM serves as the building blocks of galaxies and that DE accelerates the expansion of the Universe their true nature remains elusive In the first half the authors consider sterile neutrino DM motivated by recent claims that these particles may have finally been detected Using sophisticated models of galaxy formation the authors find that future observations of the high redshift Universe and faint dwarf galaxies in the Local Group can place strong constraints on the sterile neutrino scenario In the second half the authors propose and test novel numerical algorithms for simulating Universes with a modified theory of gravity as an alternative explanation to accelerated expansion The authors techniques improve the efficiency of these simulations by more than a factor of 20 compared to previous methods inviting the readers into a new era for precision cosmological tests of gravity

Literature 1992, Part 1 Astronomisches Recheninstitut,2013-11-11 Astronomy and Astrophysics Abstracts appearing twice a year has become oneof the fundamental publications in the fields of astronomy astrophysics andneighbouring sciences It is the most important English language abstracting journal in the mentioned branches The abstracts are classified under more than a hundred subject categories thus permitting a quick survey of the whole extended material The AAA is a valuable and important publication for all students and scientists working in the fields of astronomy and related sciences As such it represents a necessary ingredient of any astronomical library all over the world

Emotion in Man and Animal: Its Nature and Dynamic Basis Paul Thomas Young,1973 The book is intended to serve as a text and for reference in these and related areas It is intended for students who have had introductory courses in psychology and who possess some background in physiology and general biology

Preface Journal of the Optical Society of America ,1992 **The Athenaeum** ,1920 First Stars III Brian W. O'Shea,Alexander Heger,Tom Abel,2008-04-04 This conference explored the formation life and death of the earliest stars also known as Population III stars and their impact on subsequent structure formation and chemical evolution of the universe

First Stars III covered a wide range of observational topics including star formation stellar evolution supernovae and the search for primordial and metal poor stars in the galactic halo

The Endocrine Society - Annual Meeting, Program and Abstracts Endocrine Society, Endocrine Society. Meeting, 1990

Genetic Engineering and Biotechnology Related Firms Worldwide Directory, 1990 Internet Directory Product Directory and US and Foreign Firms

Clustering at High Redshift Alain Mazure, Olivier Le Fèvre, Vincent Le Brun, 2000 Annotation Astronomers astrophysicists and other scientists and researchers from laboratories observatories and universities throughout North America Europe Asia and the Middle East present 60 contributions addressing clustering from low to high redshift clustering measurements in surveys IR and sub mm surveys theory and models high redshift clusters of galaxies QSO absorption lines primordial galaxies clustering around QSOs and radio galaxies and the physics of the intra cluster medium Approximately 40 poster sessions are also presented Lacks an index Annotation c Book News Inc Portland OR booknews.com

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