

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.

# The Environment And Evolution Of Galaxies

**Judd E. Hollander**



## **The Environment And Evolution Of Galaxies:**

**The Environment and Evolution of Galaxies** J.M. Shull,Harley A. Thronson Jr.,2012-12-06 In July 1992 over 300 astronomers attended the Third Tetons Summer School on the subject of The Environment and Evolution of Galaxies This book presents 28 papers based on invited review talks and a panel discussion on The Nature of High Redshift Objects The major themes include the Interstellar and Intergalactic Medium Galaxy Formation and Evolution Cooling Flows Quasars and Radiation Backgrounds and Interactions between Galaxies AGNs and their Environment Recent advances with the ROSAT COBE and Hubble Space Telescope are discussed together with current theoretical developments The tutorial nature of the papers make this book a valuable supplement for professional astronomers graduate students and senior undergraduates As with previous Tetons conferences this book provides both the current state of observational and theoretical research and material complementary to courses in extragalactic and interstellar astrophysics

**Environment and the Formation of Galaxies: 30 years later** Ignacio Ferreras,Anna Pasquali,2013-11-27 The publication of the morphology density relation by Alan Dressler in 1980 brought into the limelight the role played by environment in the formation and evolution of galaxies The symposium Environment and the Formation of Galaxies 30 years later was organised with the purpose of establishing the environmental impact on the evolution of galaxies and its dependence on look back time Special emphasis was placed on the physical mechanisms that are responsible for transforming galaxies once they are accreted by a group or a cluster including the observable imprint left in the galaxy HI distribution Other major topics of the symposium were the environmental dependence of galaxy properties at  $z \sim 1$  and the implementation of environmental effects in cosmological models of galaxy formation and evolution This book presents the edited proceedings of this stimulating meeting

The Evolution of Galaxies Marc Sauvage,Grazyna Stasinska,D. Schaerer,2013-06-29 Galaxies have a history This has become clear from recent sky surveys which have shown that distant galaxies formed early in the life of the Universe differ from the nearby ones New observational windows at ultraviolet infrared and millimetric wavelengths provided by ROSAT IRAM IUE IRAS ISO have revealed that galaxies contain a wealth of components very hot gas atomic hydrogen molecules dust dark matter A significant advance is expected due to new instruments VLT FIRST XMM which will allow one to explore the most distant Universe Three Euroconferences have been planned to punctuate this new epoch in galactic research bringing together specialists in various fields of Astronomy

**Environment and the Formation of Galaxies: 30 years later** Ignacio Ferreras,Anna Pasquali,2011-07-06 The publication of the morphology density relation by Alan Dressler in 1980 brought into the limelight the role played by environment in the formation and evolution of galaxies The symposium Environment and the Formation of Galaxies 30 years later was organised with the purpose of establishing the environmental impact on the evolution of galaxies and its dependence on look back time Special emphasis was placed on the physical mechanisms that are responsible for transforming galaxies once they are accreted by a group or a cluster including the observable imprint left in the galaxy HI

distribution Other major topics of the symposium were the environmental dependence of galaxy properties at  $z \sim 1$  and the implementation of environmental effects in cosmological models of galaxy formation and evolution This book presents the edited proceedings of this stimulating meeting      The Evolution of Galaxies G. Hensler, G. Stasinska, S. Harfst, P. Kroupa, C. Theis, 2013-11-11 Galaxies have a history This has become clear from recent sky surveys which have shown that distant galaxies formed early in the life of the Universe differ from the nearby ones New observational windows at ultraviolet infrared and millimetric wavelengths provided by ROSAT IRAM IUE IRAS ISO have revealed that galaxies contain a wealth of components very hot gas atomic hydrogen molecules dust dark matter A significant advance is expected from the results of new instruments VLT FIRST XMM which will allow one to explore the most distant Universe Three Euroconferences were planned to punctuate this new epoch in galactic research bringing together specialists in various fields of Astronomy This book contains the proceedings of the third conference and presents the actual state of the art of modelling galaxy evolution

Physics of the Formation and Evolution of Galaxies Tsutomu T. Takeuchi, 2025-09-05 This book introduces various physical processes related to the formation and evolution of galaxies such as gravitation electromagnetism statistical physics condensed matter non equilibrium processes and relativity Real data are analyzed using statistical methods and theoretical understanding These topics give students and researchers in other fields a cross sectional interdisciplinary review In particular the author puts a great emphasis on multi wavelength observations and surveys which are now fundamental to understand the physics of any kind of cosmological and galactic comprehensive study This is the first book to look at multi wavelength surveys from the view of both observation and theory This book is intended to be a standard guide to the physics of galaxy formation and evolution which is popular in astrophysics but is not dealt with in detail in other books for young graduate students and non experts in physics Physical processes related to the formation and evolution of stars in galaxies are particularly mentioned from the view of multi wavelength observations which leads to an understanding of how the current universe has developed      *The Influence of the Environment on the Evolution of Galaxies* Geert Sikkema, 2009

**The Structure and Evolution of Galaxies** Steve Phillipps, 2005-06-17 The Structure and Evolution of Galaxies is a concise introduction to this fascinating subject providing the reader with the fundamentals in a clear and accessible style This user friendly text assumes some prerequisite knowledge of astronomy with the necessary mathematics kept to a minimum Beginning with an introduction to the existence of our own external galaxies the book moves on to discuss how perceptions of galaxy development have changed over time The three categories of galaxies are then discussed with later chapters considering their formation and evolution The book concludes with an overview of both current developments in the field and considers the direction of future research Clear and accessible introduction to this dynamic subject Introduces definitions of key terms and puts them in context Includes current research and future developments in the field Appendix of basic definitions to clarify key concepts An invaluable text for students of astronomy and physics      *Chemical Evolution*

*from Zero to High Redshift* Jeremy Walsh, Michael R. Rosa, 2013-06-29      **Spectral Evolution of Galaxies** C. Chiosi, Alvio Renzini, 2012-12-06 As it was said by one of the participants to this workshop In our attempts to understand the spectral evolution of galaxies we are fortunate indeed to have the ability to look back in time and observe galaxies as they were billions of years ago Perhaps in no other discipline is it possible to gain such a direct view to history The galaxies we seek to study are remote their light faint and thus only recently has it become technically feasible to sample the spectra of normal luminosity galaxies at lookback times of five billion years or more or perhaps even to see galaxies in the process of their formation or shortly afterwards This fourth workshop organized by the Advanced School of Astronomy was indeed centered on the Spectral Evolution of Galaxies on reviewing and discussing the relevant astrophysical processes and on assessing our current ability to model and understand the evolution of stellar populations Following an opening session dealing with some outstanding questions of galaxy evolution Session I addressed the specific problems of galaxy and star formation processes topics of uncertainty and controversy to which IRAS observations may give novel perspectives The properties of stellar populations in the local group of galaxies formed the basis of Session II Session III dealt with the fundamentals of the theory of spectral and photometrical evolution of stellar populations and with recent developments in the theory of stellar structure a necessary step to model and understand galactic evolution      **The Cosmic Web, and the Role of Environment in Galaxy Evolution** Ryan Cybulski, 2016 The Universe on extra galactic scales is composed of a vast network of structures dubbed the cosmic web One of the most fundamental discoveries about the evolution of galaxies is that their properties have a dependence on their location relative to this cosmic web i.e. their environment However detailed studies of the environmental dependence on galaxy evolution have been extremely challenging due to the inherent complexity of the structures on the largest scales a plethora of techniques being used to try to map the cosmic web and other confounding factors such as the masses of galaxies that also affect their evolution In this work we will present a technique for characterizing the environments of galaxies in the cosmic web which is comprised of two separate but complementary methods that together provide a more complete measure of environment After some introductory background in Chapter 1 we will demonstrate these mapping techniques on the Coma Supercluster and present an analysis of the star formation activity of about 4 000 galaxies in the supercluster environment in Chapter 2 Next in Chapter 3 we present a greatly expanded application of our mapping techniques encompassing about 60 000 galaxies within 200 Mpc that addresses several outstanding questions from the Coma Supercluster study and also leads to new intriguing insights into the evolution of galaxies as a function of environment Then in Chapter 4 we present a pilot study focusing on galaxy evolution as traced by the gas content around two galaxy clusters We also expand upon this pilot study in Chapter 5 whereupon we examine more closely the resiliency of molecular gas content compared to the atomic gas to the effects of the cluster environment And finally in Chapter 6 we present some concluding remarks and explore some promising avenues for future study      **A Panchromatic View of**

**Galaxies** Alessandro Boselli, 2012-01-17 Describing how to investigate all kinds of galaxies through a multifrequency analysis this text is divided into three different sections The first describes the data currently available at different frequencies from X rays to UV optical infrared and radio millimetric and centimetric while explaining their physical meaning In the second section the author explains how these data can be used to determine physical parameters and quantities such as mass and temperature The final section is devoted to describing how the derived quantities can be used in a multifrequency analysis to study such physical processes as the star formation cycle and constrain models of galaxy evolution As a result observers will be able to interpret galaxies and their structure

**Introduction to Galaxy Formation and Evolution** Andrea Cimatti, Filippo Fraternali, Carlo Nipoti, 2019-10-17 A comprehensive examination of nearly fourteen billion years of galaxy formation and evolution from primordial gas to present day galaxies

**Galaxy Interactions at Low and High Redshift** J.E. Barnes, D.B. Sanders, 2012-12-06 The 186th IAU Symposium came at an exciting and perhaps even historic time for extragalactic astronomy New spacecraft observations plumbed the depths of the Universe out to redshifts of five while revealing astounding details of nearby galaxies and AGN at intermediate redshifts Theoretical ideas on structure formation together with results from detailed numerical modeling created a comprehensive framework for modeling the formation of galaxies and the transformation of galaxies by interactions and mergers All these strands came together at the Symposium as participants glimpsed a developing synthesis highlighting galactic encounters and their role in the history of the Universe This volume offers professional astronomers including PhD students an overview of the rapidly advancing subject of galaxy interactions at low and high redshifts

*From the Realm of the Nebulae to Populations of Galaxies* Mauro D'Onofrio, Roberto Rampazzo, Simone Zaggia, 2016-07-26 In order to outline possible future directions in galaxy research this book wants to be a short stopover a moment of self reflection of the past century of achievements in this area Since the pioneering years of galaxy research in the early 20th century the research on galaxies has seen a relentless advance directly connected to the parallel exponential growth of new technologies Through a series of interviews with distinguished astronomers the editors provide a snapshot of the achievements obtained in understanding galaxies While many initial questions about their nature have been addressed many are still open and require new efforts to achieve a solution The discussions may reveal paradigms worthwhile revisiting With the help of some of those scientists who have contributed to it the editors sketch the history of this scientific journey and ask them for inspirations for future directions of galaxy research

**Multiwavelength Mapping of Galaxy Formation and Evolution** Alvio Renzini, Ralf Bender, 2005-05-23 The possibilities of astronomical observation have dramatically increased over the last decade Major satellites like the Hubble Space Telescope Chandra and XMM Newton are complemented by numerous large ground based observatories from 8m 10m optical telescopes to sub mm and radio facilities As a result observational astronomy has access to virtually the whole electromagnetic spectrum of galaxies even at high redshifts Theoretical models of galaxy formation and cosmological

evolution now face a serious challenge to match the plethora of observational data In October 2003 over 170 astronomers from 15 countries met for a 4 day workshop to extensively illustrate and discuss all major observational projects and ongoing theoretical efforts to model galaxy formation and evolution This volume contains the complete proceedings of this meeting and is therefore a unique and timely overview of the current state of research in this rapidly evolving field

**Clusters of Galaxies** William R. Oegerle, Michael J. Fitchett, Laura Danly, Space Telescope Science Institute, 1990 Collected in this volume are the review papers from the Space Telescope Science Institute symposium on Clusters of Galaxies held in May 1989 Fifteen experts in the field have presented summaries of our current understanding of the formation and evolution of clusters and their constituent galaxies Subjects covered include the existence and importance of subclustering models of the evolution of clusters and the intracluster medium the effect of the cluster environment on galaxies observations of high redshift clusters and the use of clusters as tracers of large scale structure This book provides a timely focus for future observational and theoretical work on clusters of galaxies

**Nearly Normal Galaxies** Sandra M. Faber, 2012-12-06 It is sometimes said that astronomy is the crossroads of physics In the same spirit it can forcefully be argued that galaxies are the crossroads of astronomy Internal processes within galaxies involve all of the fundamental components of astrophysics stellar evolution star formation low density astrophysics dynamics hydrodynamics and high energy astrophysics Indeed one can hardly name an observational datum in any wavelength range on any kind of celestial object that does not provide a useful clue to galaxy formation and evolution Although internal processes in galaxies until recently occupied most of our attention we now know that it is also vital to relate galaxies to their environment How galaxies conglomerate in larger structures and are in turn influenced by them are crucial questions for galactic evolution On a grander level we have also come to regard galaxies as the basic building blocks of the universe the basic units whereby the large scale structure of the universe is apprehended and quantified On a grander level still we also believe strongly that galaxies are the direct descendents of early density irregularities in the Big Bang Galaxy properties are now viewed as providing a crucial constraint on the physics of the Big Bang and a vital link between the macroscopic and microscopic structure of the universe

**Near-Field Cosmology with Dwarf Elliptical Galaxies (IAU C198)** International Astronomical Union. Colloquium, 2005 Proceedings of IAU C 198 covering important issues related to near field cosmology with dwarf elliptical galaxies

*Groups of Galaxies in the Nearby Universe* Ivo Saviane, Valentin D. Ivanov, Jordanka Borissova, 2007-08-01 For every galaxy in the field or in clusters there are about three galaxies in groups The Milky Way itself resides in a group and groups can be found at high redshift The current generation of 10 m class telescopes and space facilities allows the observation of the members of nearby groups with exquisite detail and their properties can be correlated with the global properties of their host group Groups in the local Universe offer us the chance to study galaxies in environments characterized by strong interactions In the cosmological context groups trace large scale structures better than clusters and the evolution of groups and clusters appears to be

related All these aspects of research on groups of galaxies are summarized in this book written by scientists working in various fields



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