

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.

Physics Of Star Formation In Galaxies

R Barnett



Physics Of Star Formation In Galaxies:

Physics of Star Formation in Galaxies F. Palla, H. Zinnecker, 2002-04-23 The book begins with a historical introduction Star Formation The Early History that presents new material of interest for students and historians of science This is followed by two long articles on Pre Main Sequence Evolution of Stars and Young Clusters and Observations of Young Stellar Objects These articles on the fascinating problem of star formation from interstellar matter give a thorough overview of present day theories and observations The articles contain material so far unpublished in the astronomical literature The book addresses graduate students and can be used as a textbook for advanced courses in stellar astrophysics *Star Formation in Galaxy Evolution: Connecting Numerical Models to Reality* Nickolay Y. Gnedin, Simon C. O. Glover, Ralf S. Klessen, Volker Springel, 2015-09-09 This book contains the elaborated and updated versions of the 24 lectures given at the 43rd Saas Fee Advanced Course Written by four eminent scientists in the field the book reviews the physical processes related to star formation starting from cosmological down to galactic scales It presents a detailed description of the interstellar medium and its link with the star formation And it describes the main numerical computational techniques designed to solve the equations governing self gravitating fluids used for modelling of galactic and extra galactic systems This book provides a unique framework which is needed to develop and improve the simulation techniques designed for understanding the formation and evolution of galaxies Presented in an accessible manner it contains the present day state of knowledge of the field It serves as an entry point and key reference to students and researchers in astronomy cosmology and physics **Galactic and Extragalactic Star Formation** Ralph E. Pudritz, Michel Fich, 2012-12-06 Recent advances in the instrumentation used to observe star forming regions in both our own Milky Way and in external galaxies have transformed the subject from a phenomenological pursuit into an increasingly unified physical science High resolution centimetre millimetre infrared and optical studies of local star forming clouds have allowed us to probe the physics of star formation down to spatial scales approaching those of the solar system These developments make it possible to better constrain the basic physical processes underlying star formation itself At the same time these new instruments have placed extragalactic studies on a footing detailed enough to allow comparison with star forming regions within our own galaxy This revolution means that we will soon be able to link the physics of local star forming regions to the global star forming properties of galaxies The entire structure of this NATO Advanced Study Institute was designed to explore this new view of the subject This Institute on Galactic and Extragalactic Star Formation was held from June 21 July 4 1987 at the Conference Centre in the village of Whistler British Columbia Canada The informal atmosphere of this lovely mountain resort stimulated many valuable scientific exchanges The Institute was funded by a major grant from NATO Scientific Affairs Additional financial and logistical assistance was provided by the Canadian Institute for Theoretical Astrophysics CITA and McMaster University

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

Star Formation, Galaxies and the Interstellar Medium Jose Franco, Federico Ferrini, G. TENORIO-TAGLE (Ed), 1993-06-10 The enormously powerful phenomena of starbursts are examined in this book These spectacular star forming events are seen on large scales in some galaxies often triggered by galactic interactions An intriguing implication of starburst research is that active galactic nuclei AGN may not be powered by accreting black holes Instead theories are presented where compact powerhouses of dust enshrouded star formation lie at the core of AGN with supernovae exploding roughly once per year within massive nuclear concentrations of gas This book collects articles from a timely international conference in Elba Italy in 1992 these comprise a thorough review of the most important developments in galactic scale star formation since the starburst revolution of the late 1980s This text will introduce graduate students to this exciting area and keep experts abreast with rapid developments in it

Galaxies: Interactions and Induced Star Formation Robert C. Kennicutt Jr., F. Schweizer, J.E. Barnes, 1998-04-20 This volume contains the written versions of the lectures given at the 26th course of the renowned Saas Fee series The book represents a comprehensive and up to date review of the field of galaxy interaction Nowadays galaxies are no longer seen as immutable objects they evolve interact merge blaze and reshape Dynamic forces can induce powerful stellar activity able to transform the matter composition and morphology of galaxies The lectures included in this book aim at a better understanding of these remarkable and fascinating phenomena Though the book is intended for graduate students and young post docs in astrophysics it contains more advanced and original material as well as historical perspectives which will be of great interest to experts and astronomy teachers also

Starbursts: Triggers, Nature, and Evolution Bruno Guiderdoni, Ajit Kembhavi, 1998-06-10 Starbursts are regions of unusually rapid star formation often located in the central parts of galaxies Recent observational and theoretical developments have emphasized their importance to understand the connection between star formation the interstellar medium and the secular evolution of galaxies In this book leading experts in the field introduce the basic processes involved in the physics of starbursts the phenomenological concepts which are used to describe and model their triggering and evolution and their link to galaxy formation and history A specific effort is made to start with pedagogical presentations and to review the state of the art of the observations and models emphasizing the recent breakthroughs and the major issues to be explored in the future

Galactic and Extragalactic Star Formation Ralph E. Pudritz, Michel Fich, 1988-05-31 Recent advances in the instrumentation used to observe star forming regions in both our own Milky Way and in external galaxies

have transformed the subject from a phenomenological pursuit into an increasingly unified physical science. High resolution centimetre millimetre infrared and optical studies of local star forming clouds have allowed us to probe the physics of star formation down to spatial scales approaching those of the solar system. These developments make it possible to better constrain the basic physical processes underlying star formation itself. At the same time these new instruments have placed extragalactic studies on a footing detailed enough to allow comparison with star forming regions within our own galaxy. This revolution means that we will soon be able to link the physics of local star forming regions to the global star forming properties of galaxies. The entire structure of this NATO Advanced Study Institute was designed to explore this new view of the subject. This Institute on Galactic and Extragalactic Star Formation was held from June 21 July 4 1987 at the Conference Centre in the village of Whistler British Columbia Canada. The informal atmosphere of this lovely mountain resort stimulated many valuable scientific exchanges. The Institute was funded by a major grant from NATO Scientific Affairs. Additional financial and logistical assistance was provided by the Canadian Institute for Theoretical Astrophysics CITA and McMaster University.

The Epoch of Galaxy Formation Carlos S. Frenk, Richard S. Ellis, T. Shanks, Alan F. Heavens, John A. Peacock, 2012-12-06

Scientists in the late twentieth century are not the first to view galaxy formation as a phenomenon worthy of explanation in terms of the known laws of physics. Already in 1754 Kant regarded the problem as essentially solved. In his *Universal Natural History and Theory of the Universe* he wrote: "If in the immeasurable space in which all the suns of the Milky Way have formed themselves we assume a point around which through some cause or other the first formation of nature out of chaos began, there the largest mass and a body of extraordinary attraction will have arisen which has thereby become capable of compelling all the systems in the process of being formed within an enormous sphere around it to fall towards itself as their centre and to build up a system around it on the great scale." Observation puts this conjecture almost beyond doubt. More than 200 years later a similar note of confidence was voiced by Zel'dovich at an IAU symposium held in Tallin in 1911. Extrapolating to the next symposium somewhere in the early eighties one can be pretty sure that the question of the formation of galaxies and clusters will be solved in the next few years. Perhaps few astronomers today would share Kant's near certainty or feel that Zel'dovich's prophecy has been fulfilled. Many however will sympathize with the optimistic outlook of these two statements.

A Statistical and Multi-wavelength Study of Star Formation in Galaxies Corentin Schreiber, 2016-09-12

This thesis presents a pioneering method for gleaning the maximum information from the deepest images of the far infrared universe obtained with the Herschel satellite, reaching galaxies fainter by an order of magnitude than in previous studies. Using these high quality measurements the author first demonstrates that the vast majority of galaxy star formation did not take place in merger driven starbursts: over 90% of the history of the universe which suggests that galaxy growth is instead dominated by a steady infall of matter. The author further demonstrates that massive galaxies suffer a gradual decline in their star formation activity, providing an alternative path for galaxies to stop star formation. One of the

key unsolved questions in astrophysics is how galaxies acquired their mass in the course of cosmic time In the standard theory the merging of galaxies plays a major role in forming new stars Then old galaxies abruptly stop forming stars through an unknown process Investigating this theory requires an unbiased measure of the star formation intensity of galaxies which has been unavailable due to the dust obscuration of stellar light **From Dust To Stars** Norbert S. Schulz, 2007-03-06

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 *The Physics of Galaxy Formation* Claudia Del P. Lagos, 2013-10-15 This thesis addresses two of the central processes which underpin the formation of galaxies the formation of stars and the injection of energy into the interstellar medium from supernovae called feedback In her work Claudia Lagos has completely overhauled the treatment of these processes in simulations of galaxy formation Her thesis makes two major breakthroughs and represents the first major steps forward in these areas in more than a decade Her work has enabled for the first time predictions to be made which can be compared against new observations which probe the neutral gas content of galaxies opening up a completely novel way to constrain the models The treatment of feedback from supernovae and how this removes material from the interstellar medium is also likely to have a lasting impact on the field Claudia Lagos Ph D thesis was nominated by the Institute for Computational Cosmology at Durham University as an outstanding Ph D thesis 2012 **Principles of Star Formation** Peter Bodenheimer, 2011-07-20 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 *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 researchers focusing more on computational approaches in this edition Star Formation Mark R Krumholz,2017-05-11 Krumholz has a strong writing style didactic to be sure but also fairly conversational within the limits of the material While hardly casual reading this text would be a good resource for a stellar astrophysicist or any individual seeking to become one CHOICE This book provides a modern introduction to the study of star formation at a level suitable for graduate students or advanced undergraduates in astrophysics The first third of the book provides a review of the observational phenomenology and then the basic physical processes that are important for star formation The remainder then discusses the major observational results and theoretical models for star formation on scales from galactic down to planetary The book includes recommendations for complementary reading from the research literature as well as five problem sets with solutions 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 *Scientific and Technical Aerospace Reports* ,1987

Morphology, Kinematics and Star Formation Across the Hubble Sequence of Galaxies Santiago Erroz-Ferrer,2015-11-21 This thesis discusses the evolution of galaxies through the study of the morphology kinematics and

star formation properties of a sample of nearby galaxies The main body of the thesis describes the kinematic observations with the GHaFAS Fabry Perot instrument on the William Herschel Telescope of a sample of 29 spiral galaxies The work is closely related to the Spitzer Survey of Stellar Structure in Galaxies and uses the mid infrared data of that survey to determine key parameters of the galaxies studied From these data important results are obtained on streaming and other non circular motions in galaxies on the distribution and rates of star formation and on how correlations of these parameters and of the rotation curve shape with basic galaxy parameters yield clues on the evolutionary processes taking place in disk galaxies

Galaxies: Interactions and Induced Star Formation Robert C. Kennicutt Jr.,F. Schweizer,J.E. Barnes,2014-10-08 This volume contains the written versions of the lectures given at the 26th course of the renowned Saas Fee series The book represents a comprehensive and up to date review of the field of galaxy interaction Nowadays galaxies are no longer seen as immutable objects they evolve interact merge blaze and reshape Dynamic forces can induce powerful stellar activity able to transform the matter composition and morphology of galaxies The lectures included in this book aim at a better understanding of these remarkable and fascinating phenomena Though the book is intended for graduate students and young post docs in astrophysics it contains more advanced and original material as well as historical perspectives which will be of great interest to experts and astronomy teachers also

Galaxy Formation and Evolution Houjun Mo, Frank van den Bosch, Simon White, 2010-05-20 A coherent introduction for researchers in astronomy particle physics and cosmology on the formation and evolution of galaxies

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