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Massive Stars in Starbursts

Edited by
C. Leitherer,
N. R. Walborn, T. M. Heckman
and C. A. Norman



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Massive Stars in Starbursts Claus Leitherer, Space Telescope Science Institute (U.S.), 1991-05-16 This book reviews the importance of massive stars in several areas of astrophysics Massive stars are objects that are 10 100 times the mass of our Sun Above ten solar masses loss through stellar winds begins to have a major impact on the evolution of a star The upper limit of 100 solar masses is derived from observations Significant progress has now been achieved in massive star research New models along with high quality observations have improved our understanding of the formation structure atmosphere and evolution of these massive objects They are formed in violent bursts of star formation and are probably related to the phenomena observed in active galactic nuclei The workshop at the Space Telescope Science Institute examined the interplay between the astrophysics of massive stars and their location in extragalactic starburst regions There are eighteen chapters by leading researchers Each has been carefully edited to ensure that the book is a comprehensive introduction to the theory and observation of massive stars in starburst regions **Massive Stars** Space Telescope Science Institute (U.S.).

Symposium, Space Telescope Science Institute (U.S.), 2009-11-12 Presents observational and theoretical papers from world experts addressing the important role in astrophysics of massive stars **Massive Stars as Cosmic Engines (IAU S250)**

International Astronomical Union. Symposium, 2008-07-17 Reviews our current understanding of the life evolution and death of massive stars for researchers and graduate students **Literature 1991, Part 2** Astronomisches

Rechen-Institut, 2013-06-29 Astronomy and Astrophysics Abstracts appearing twice a year has become one of the fundamental publications in the fields of astronomy astrophysics and neighbouring 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 天文学と天体物理学 (Japan), 1900 **Planets to Cosmology** Mario

Livio, Stefano Casertano, 2006-04-06 This book acknowledges the importance of identifying the most crucial science to be performed by the superb Hubble Telescope With this goal in mind the book presents a review of some of the most important open questions in astronomy World experts examine topics ranging from extrasolar planets and star formation to supermassive black holes and the reionization of the universe Special emphasis is placed on what astronomical observations should be carried out during the next few years to enable breakthroughs in our understanding of a complex and dynamic universe In particular the reviewers attempt to identify those topics to which the Hubble Space Telescope can uniquely contribute The special emphasis on future research makes this book an essential resource for both professional researchers and graduate students in astronomy and astrophysics **A Decade of Hubble Space Telescope Science** Space Telescope

Science Institute (U.S.). Symposium, 2003-06-26 The Hubble Space Telescope has made some of the most dramatic

discoveries in the history of astronomy From its vantage point 600km above the Earth Hubble is able to capture images and spectra that would be difficult or impossible to obtain from the ground This volume represents some of the most important scientific achievements of the Hubble Space Telescope in its first decade of operation Written by world experts this is an indispensable collection of review articles for researchers and graduate students **Mercury**, 1992 The Hubble Deep Field Space Telescope Science Institute (U.S.). Symposium, Mario Livio, Space Telescope Science Institute (U.S.), 1998-10-13 The Hubble Deep Field HDF is the deepest optical image of the Universe ever obtained It is the result of a 150 orbit observing programme with the Hubble Space Telescope It provides a unique resource for researchers studying the formation and evolution of stars and galaxies This timely volume provides the first comprehensive overview of the HDF and its scientific impact on our understanding in cosmology It presents articles by a host of world experts who gathered together at an international conference at the Space Telescope Science Institute The contributions combine observations of the HDF at a variety of wavelengths with the latest theoretical progress in our understanding of the cosmic history of star and galaxy formation The HDF is set to revolutionize our understanding in cosmology This book therefore provides an indispensable reference for all graduate students and researchers in observational or theoretical cosmology **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 **The Local Group as an Astrophysical Laboratory** Space Telescope Science Institute (U.S.). Symposium, Space Telescope Science Institute (U.S.), 2006-05-04 Publisher description The Extragalactic Distance Scale Space Telescope Science Institute (U.S.). Symposium, 1997-06-28 One of the hottest debates in astronomy and cosmology today concerns the value of the Hubble constant This constant is of paramount importance since it fixes the size and age of the Universe At a symposium at the Space Telescope Science Institute experts from around the world presented the latest results from a plethora of techniques for determining the Hubble constant The value has always been controversial but at this meeting experts results agreed for the first time to within about 20% Based on the meeting this book presents twenty three specially written review articles They provide a comprehensive account of the Hubble constant debate with the latest results from gravitational lensing supernovae and novae the Tully Fisher relation the Sunyaev Zeldovich effect globular clusters planetary nebulae light echoes and the Hubble Space Telescope Key Project This

timely volume provides a standard reference for graduate students and researchers in astronomy and cosmology *Nature*
Sir Norman Lockyer, 1869 **Supernovae and Gamma-Ray Bursts** Mario Livio, Nino Panagia, Kailash Sahu, 2001-07-02

Since the dramatic discovery that the supernova SN1998bw coincided in position and time with a gamma ray burst the possibility was raised that these two types of spectacular explosions are related This timely volume presents especially written articles by a host of world experts who gathered together for an international conference at the Space Telescope Science Institute This was the first meeting in which the communities of supernova researchers and gamma ray burst researchers were brought together to share ideas The contributions review the mechanisms for these explosive events the possible connections between them and their relevance for cosmology Both observations and theoretical developments are covered This book is an invaluable source of information for both active researchers and graduate students in this exciting area of research **Galaxy Evolution Across the Hubble Time (IAU S235)** International Astronomical Union.

Symposium, 2007-05-17 This last decade has witnessed a revolution in our observations of galaxies in particular deep imaging with HST and spectroscopy with 10m class ground based telescopes have uncovered many objects that are difficult to place along the Hubble sequence High resolution spectroscopy of extremely faint objects has enabled the study of the kinematic evolution and hence the mass assembly of galaxies to unprecedented look back times for direct comparison with cosmological structure formation scenarios Thus it is now possible to study all three aspects of galaxy evolution their morphological dynamical chemical and spectral evolution out to redshift larger than six exploring more than 95% of the age of the universe These Proceedings of the IAU Symposium 235 report the considerable progress made in recent years on galaxy formation and evolution and look forward to the expected breakthroughs in the domain of remote galaxies with ALMA the ELT and the next generation space telescopes Wolf-Rayet Phenomena in Massive Stars and Starburst Galaxies International

Astronomical Union. Symposium, 1999 The nonprofit Astronomical Society of the Pacific ASP publishes the Conference Series Proceedings as part of its century old mission to provide resources for astronomers and advance the science of astronomy Since 1988 the ASP has published the proceedings of astronomical workshops meetings colloquia and symposia to meet the community's demand for affordable high quality volumes on current topics in the rapidly expanding fields of astronomy and astrophysics Since 1998 the Society has also served as publisher for the International Astronomical Union IAU adding their Symposia Highlights and Transactions to our growing list of publications For most rapid delivery of each volume we encourage libraries and astronomy departments to place a Standing Order for the ASP Conference Series and or the IAU Publications Standing Orders are shipped directly from the printer and customers receive volumes at the same discounted rates as ASP members approximately 25-35 ASP volumes each year and or 5 IAU Symposia Please refer to the order form to take advantage of this time saving offer We encourage all professionals who are sponsoring conferences workshops or colloquia to inquire about publishing these proceedings with the ASP We provide quality volumes at less than half the price

of comparable titles from other major publishers ensuring that the publication will be available to a wider audience of budget conscious scientists Held in Puerto Vallarta Mexico 3 7 November 1998 Stellar Populations Piet C. van der Kruit, Gerry Gilmore, 1995-06-30 The concept of Stellar Populations has played a fundamental role in astronomy in the last few decades It was introduced by Walter Baade after he was able to resolve the Andromeda Nebula and its companions into stars when he used red sensitive plates and realised that there were two fundamentally different Hertzsprung Russell diagrams in our and these nearby galaxies common stars in the solar neighborhood versus globular clusters This result was published in two papers in 1944 in volume 100 of the Astrophysical Journal Subsequent research gave the concept a much firmer basis and at the famous Vatican Symposium of 1957 resulted in a general scheme of the concept and a working hypothesis for ideas on the formation and evolution of the Galaxy This has been a guiding principle of studies of our and other galaxies for decades Some years ago it seemed to us appropriate to commemorate Baade's seminal work in 1994 when it would have its 50th anniversary and to review its present status and also its role in contemporary understanding While we were in Leiden for an administrative committee we discussed the matter again and over beers on October 29 1991 we decided to take the initiative for an IAU Symposium on the subject during the 1994 IAU General Assembly in Den Haag the Netherlands

Starbursts Richard de Grijs, Rosa M. González Delgado, 2006-05-11 Starbursts are important features of early galaxy evolution Many of the distant high redshift galaxies we are able to detect are in a starbursting phase often apparently provoked by a violent gravitational interaction with another galaxy In fact if we did not know that major starbursts existed these conference proceedings testify that we would indeed have difficulties explaining the key properties of the Universe These conference proceedings cover starbursts from the small scale star forming regions in nearby galaxies to galaxy wide events at high redshifts one of the major themes of the conference proved to be scalability i.e. can we scale up the small scale events to describe the physics on larger scales The key outcome of this meeting and these proceedings is a resounding yes to this fundamental yet profound question The enhanced synergy facilitated by the collaboration among observers using cutting edge ground and space based facilities theorists and modellers has made these proceedings a true reflection of the state of the art in this very rapidly evolving field *Extragalactic Background Radiation* Daniela Calzetti, Mario Livio, P. Madau (Ed), 1995-01-26 A collection of edited review articles from a workshop at the Space Telescope Science Institute which united observational astronomers and theorists to examine the extragalactic background radiation at all wavelengths American Book Publishing Record, 1992

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