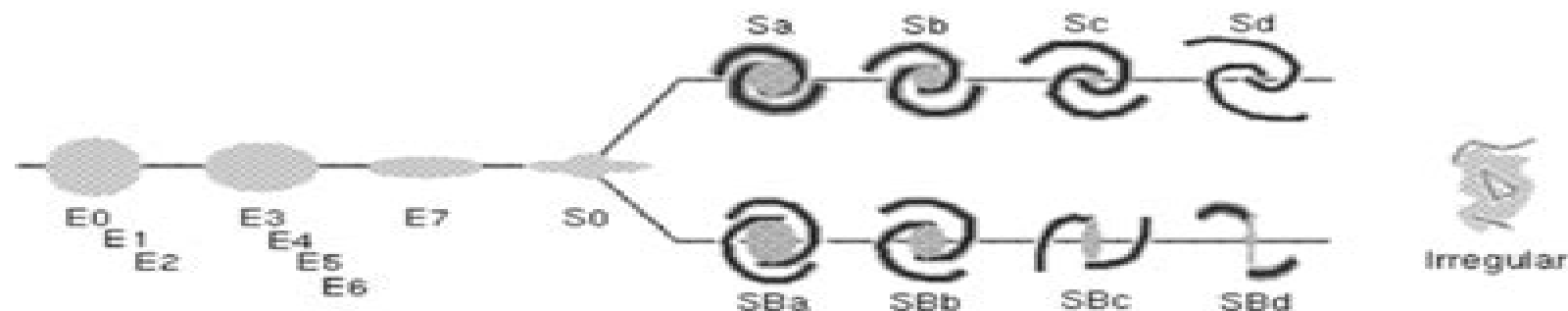






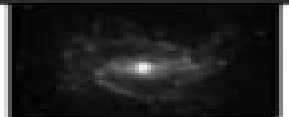


# Astronomy 1 and 2 Galaxy Classification Activity



The Hubble “tuning fork” Sequence of galaxy classification. Galaxies are classified by shape. The **elliptical** galaxies go from circular (E0) to significantly flattened (E7). The spirals are sub-divided into **regular spirals** and **barred spirals**. Each of them is further sub-divided into groups depending on the size of the central bulge and how tightly the arms are wound around the center. The **irregular** galaxies have no definite structure. This is **not** an evolutionary sequence!

INSTRUCTIONS APPEAR BELOW THE FIGURE

Galaxy Classification Chart

		
_____	_____	_____
		
_____	_____	_____
		
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# Galaxy Classification And Evolution Answer Key

**Lei Shi**



## **Galaxy Classification And Evolution Answer Key:**

**Formation and Evolution of Galaxy Bulges (IAU S245)** International Astronomical Union. Symposium, 2008-09-04  
Bulges lie at the heart of most galaxies the building blocks of our universe With a selection of reviews and topical presentations IAU Symposium 245 provides an up to date overview of our knowledge on galaxy bulges and a concise introduction to all current research on the subject The structure dynamics and stellar populations of galaxy bulges both near and far are analysed through state of the art observations The leading models for the formation and evolution of galaxy bulges are described in detail and the constraints observations put on these are dissected Particular emphasis is placed on exploring evidence for both hierarchical merging and secular processes Special attention is also devoted to disentangling the complex web relating galaxy bulges and central supermassive black holes and on the lessons learned from our exquisite knowledge of the bulge of our own Milky Way This volume is the best one stop reference on galaxy bulges currently available

*Reports of the Seven Space Telescope Science Institute Working Groups on Key Projects for the Hubble Space Telescope* Space Telescope Science Institute (U.S.), 1985      **Galaxy Evolution** Vladimir Avila-Reese, 2003      **Applications of Big Data and Machine Learning in Galaxy Formation and Evolution** Tsutomu T. Takeuchi, 2025-04-29 As investigations into our Universe become more complex in depth and widespread galaxy surveys are requiring state of the art data scientific methods to analyze them This book provides a practical introduction to big data in galaxy formation and evolution introducing the astrophysical basics before delving into the latest techniques being introduced to astronomy and astrophysics from data science This book helps translate the cutting edge methods into accessible guidance for those without a formal background in computer science It is an ideal manual for astronomers and astrophysicists in addition to graduate students and postgraduate students in science and engineering looking to learn how to apply data science to their research Key Features Introduces applications of data science methods to the exciting subject of galaxy formation and evolution Provides a practical guide to understanding cutting edge data scientific methods as well as classical astrostatistical methods Summarises a vast range of statistical and informatics methods in one volume with concrete applications to astrophysics

*Astrophysics Update* John Mason, 2003-12-02 Written by leading exponents in the field this collection of timely reviews presents observational methods and the latest results of astronomical research as well as their theoretical foundations and interrelations providing information and scientifically rigorous coverage      **Uranometria 2000.0: Deep sky field guide**, 2001      **Conducting Astronomy Education Research** Janelle M. Bailey, Timothy F. Slater, Stephanie J. Slater, 2011-01-28 Tim Slater and Roger Freedman have worked to improve astronomy and overall science education for many years Now they ve partnered to create a new textbook a re envisioning of the course focused on conceptual understanding and inquiry based learning Investigating Astronomy A Conceptual Approach to the Universe is a brief 15 chapter text that employs a variety of activities and experiences to encourage students to think like a scientist      **Coevolution of Black Holes and Galaxies:**

**Volume 1, Carnegie Observatories Astrophysics Series** Luis C. Ho, 2004-09-09 This book was originally published in 2004 Black holes are among the most mysterious objects in the Universe Weighing up to several billion Suns massive black holes have long been suspected to be the central powerhouses of energetic phenomena such as quasars Advances in astronomy have not only provided spectacular proof of this long standing paradigm but have revealed the unexpected result that far from being rare exotic beasts they inhabit the center of virtually all large galaxies Candidate black holes have been identified in increasingly large numbers of galaxies both inactive and active to the point where statistical studies are possible Fresh work has highlighted the close connection between the formation growth and evolution of supermassive black holes and their host galaxies This volume contains the invited lectures from an international symposium that was held to explore this exciting theme and is a valuable review for professional astronomers and graduate students Science with the Atacama Large Millimeter Array: Rafael Bachiller, José Cernicharo Quintanilla, 2008-04-03 Currently under construction in the Andean Altiplano Northern Chile the Atacama Large Millimeter Array ALMA is the most ambitious astronomy facility under construction ALMA is a radio interferometer composed of 54 antennas of 12 m diameter and twelve 7 m antennas with about 6600 square meters of total collecting area Initially covering the most interesting spectral wavelength ranges from 3 to 0.3 mm ALMA will be a revolutionary telescope aimed to unveil the details of star and planet formation and to provide astronomy with the first exhaustive view of the dark and youngest objects of the Universe This book describes the enormous capabilities of ALMA the state of the project and most notably the scientific prospects with such a unique facility The book includes comprehensive reviews and recent results on most hot topics of modern Astronomy the formation and evolution of galaxies the physics and chemistry of the interstellar medium and the processes of star and planet formation with prospects to the revolutionary results to be obtained with ALMA These topics discussed with special emphasis on millimeter and sub millimeter astronomy are presented by some of the most world wide reputed scientists in their fields **An Introduction to Galaxies and Cosmology** David John Adams, 2004-05-31 This introductory textbook has been designed by a team of experts for elementary university courses in astronomy and astrophysics It starts with a detailed discussion of the structure and history of our own Galaxy the Milky Way and goes on to give a general introduction to normal and active galaxies including models for their formation and evolution The second part of the book provides an overview of the wide range of cosmological models and discusses the Big Bang and the expansion of the Universe Written in an accessible style that avoids complex mathematics and illustrated in colour throughout this book is suitable for self study and will appeal to amateur astronomers as well as undergraduate students It contains numerous helpful learning features such as boxed summaries student exercises with full solutions and a glossary of terms The book is also supported by a website hosting further teaching materials **Project Universe** Joel M. Levine, Levine, Abell, Richard T. Searles, 1992 **The Evolution of Galaxies Through the Neutral Hydrogen Window** Robert Minchin, Emmanuel Momjian, 2008-08-14 This conference brought together observers

and theorists to discuss what we are learning from the current generation of extragalactic neutral hydrogen observations and what prospects lie ahead with particular emphasis on the exciting prospects for the next 3 to 10 years with the major U S facilities    Revista Mexicana de Astronomía Y Astrofísica ,1999    **Memorie della Società astronomica italiana** Società astronomica italiana,2006    Workshop on Hot Stars in Open Clusters of the Galaxy and the Magellanic Clouds Nidia Morrell, Virpi Niemela, Rodolfo H. Barbá, 1999    *Study Guide for the Telecourse Project Universe* Joel M. Levine, Richard T. Searles, 1984    The Universe at Large Guido Münch, Antonio Mampaso, F. Sánchez, Francisco Sánchez, 1997-11-13 Eleven of the world's greatest living astronomers and cosmologists present their personal views of key problems in contemporary astronomy and cosmology    Science in the Early Twentieth Century Jacob Darwin Hamblin, 2005-03-08 The first A Z resource on the history of science from 1900 to 1950 examining the dynamic between science and the social political and cultural forces of the era Though many books have highlighted the great scientific discoveries of the early 1900s few have tackled the wider context in which these milestones were achieved Science in the Early Twentieth Century covers everything from quantum physics to penicillin and more including all the major scientific developments of the period detailing not only the scientists and their work but also the social and political forces that dominated the scientific agenda Over 200 A Z entries chronicle the landmark scientific discoveries and personalities of the period including such scientific giants as Albert Einstein and Marie Curie Placing science firmly within its cultural context this thoroughly researched accessible resource takes a uniquely interdisciplinary approach making it an invaluable text for scientists educators students and the general reader    Astronomy Today Eric Chaisson, Stephen McMillan, 1997    **The Budget of the United States Government** United States, United States. Office of Management and Budget, 2008

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