

图书基本信息

书名：<<星系中黑洞的形成与演化FORMATION AND EVOLUTION OF BLACK HOLES IN THE GALAXY>>

13位ISBN编号：9789812382115

10位ISBN编号：9812382119

出版时间：2000-12

出版时间：Aspen Publishers

作者：Hans Albrecht Bethe , G. E. Brown , C. H. Lee 著

页数：506

版权说明：本站所提供下载的PDF图书仅提供预览和简介，请支持正版图书。

更多资源请访问：<http://www.tushu007.com>

内容概要

In published papers H A Bethe and G E Brown worked out the collapse of large stars and supernova explosions. They went on to evolve binaries of compact stars, finding that in the standard scenario the first formed neutron star always went into a black hole in common envelope evolution. C J Lee joined them in the study of black hole binaries and gamma ray bursts. They found the black holes to be the fossils of the gamma ray bursts. From their properties they could reconstruct features of the burst and of the accompanying hypernova explosions. This invaluable book contains 23 papers on astrophysics, chiefly on compact objects, written over 23 years. The papers are accompanied by illuminating commentary. In addition there is an appendix on kaon condensation which the editors believe to be relevant to the equation of state in neutron stars, and to explain why black holes are formed at relatively low masses.

书籍目录

Preface
Chapter 1 Equation of State in the Gravitational Collapse of Stars
Chapter 2 How a Supernova Explodes
Chapter 3 Accretion onto and Radiation from the Compact Objects Formed in SN 1987A
Chapter 4 A Scenario for a Large Number of Low-Mass Black Holes in the Galaxy
Chapter 5 Neutron Star Accretion and Binary Pulsar Formation
Chapter 6 How Collapsing Stars Might Hide Their Tracks in Black Holes
Chapter 7 Mystery of the Missing Star
Chapter 8 Observational Constraints on the Maximum Neutron Star Mass
Chapter 9 On the Formation of Low-Mass Black Holes in Massive Binary Stars
Chapter 10 The Evolution of Relativistic Binary Pulsars
Chapter 11 Supernova Explosions, Black Holes and Neutron Stars
Chapter 12 Evolution of Binary Compact Objects That Merge
Chapter 13 Contribution of High-Mass Black Holes to Mergers of Compact Binaries
Chapter 14 The Formation of High-Mass Black Holes in Low-Mass X-Ray Binaries
Chapter 15 Evolution of Black Holes in the Galaxy
Chapter 16 The Blandford-Znajek Process as a Central Engine for a Gamma-Ray Burst
Chapter 17 A Theory of Gamma-Ray Bursts
Chapter 18 Hypercritical Advection-Dominated Accretion Flow
Chapter 19 Evolution of Neutron Star, Carbon-Oxygen White Dwarf Binaries
Chapter 20 Formation and Evolution of Black Hole X-Ray Transient Systems
Chapter 21 Formation of High-Mass X-Ray Black Hole Binaries
Chapter 22 Broad and Shifted Iron-Group Emission Lines in Gamma-Ray Bursts as Tests of the Hypernova Scenario
Chapter 23 Discovery of a Black Hole Mass-Period Correlation in Soft X-Ray Transients and Its Implication for Gamma-Ray Burst and Hypernova Mechanisms
Commentary on Appendices A-D
Appendix A Kaon Condensation in Dense Stellar Matter
Appendix B Kaon Production in Heavy-Ion Collisions and Maximum Mass of Neutron Stars
Appendix C K⁻/K⁺ Ratios in Relativistic Heavy-Ion Collisions
Appendix D Strangeness Equilibration at GSI Energies
Bibliography

版权说明

本站所提供下载的PDF图书仅提供预览和简介, 请支持正版图书。

更多资源请访问:<http://www.tushu007.com>