

《中微子》

图书基本信息

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内容概要

《中微子:从粒子物理学到天文学和宇宙学》主要内容简介 : Neutrinos in Particle Physics, Astronomy and Cosmology provides a comprehensive and up-to-date introduction to neutrino physics, neutrino astronomy and neutrino cosmology. The intrinsic properties and fundamental interactions of neutrinos are described, as is the phenomenology of lepton flavor mixing, seesaw mechanisms and neutrino oscillations. The cosmic neutrino background, stellar neutrinos, supernova neutrinos and ultrahigh-energy cosmic neutrinos, together with the cosmological matter-antimatter asymmetry and other roles of massive neutrinos in cosmology, are discussed in detail. This book is intended for researchers and graduate students in the fields of particle physics, particle astrophysics and cosmology. Dr. Zhi-Zhong Xing is a professor at the Institute of High Energy Physics, Chinese Academy of Sciences, China; Dr. Shun Zhou is currently a postdoctoral fellow at the Max Planck Institute for Physics, Germany.

书籍目录

- Chapter 01: Neutrinos: Past, Present and Future
- Chapter 02: Neutrinos within the Standard Model
- Chapter 03: Neutrinos beyond the Standard Model
- Chapter 04: Seesaw Mechanisms of Neutrino Masses
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