



Neutrino Physics (Series in High Energy Physics, Cosmology and Gravitation)

By Kai Zuber

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Neutrino physics remains one of the most exciting fields of fundamental physics today. The neutrino's position at the intersection of particle physics, astrophysics, and nuclear physics ensures continuing interest in the subject. Major activities at accelerators like Fermilab, KEK and CERN, in addition to underground facilities like Gran Sasso, Kamioka and Sudbury, continue to enhance our understanding of the origins and properties of neutrinos, and their implications for the Standard Model and cosmology.

Neutrino Physics provides an up to date and comprehensive introduction to the subject as well as an invaluable resource for researchers in physics and astrophysics. Starting with a brief historical overview the author proceeds to review fundamental neutrino properties, the neutrino mass question, and their place within and beyond the Standard Model. The final chapters examine the role of neutrinos in modern astroparticle physics, cosmology and the dark matter problem. The book concludes with a summary of the current status of neutrino physics and the implications of recent results.

Written to be accessible to readers from different backgrounds in nuclear, particle or astrophysics and with a detailed reference list, this title will be essential for any researcher or advanced student who needs to understand modern neutrino physics.

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Editorial Review

Review

This is an extremely comprehensive and up-to-date account of neutrino physics. It will serve as an excellent introduction to this exciting field, as well as providing a handy reference source for the experts. The translation is generally smooth and the diagrams are clear with informative captions.

-- Alan Watson, University of Leeds

This excellent introduction to neutrino physics describes, in 14 chapters and more than 400 pages, the past, present and future experiments and essential developments in one of the most exciting fields of fundamental physics today.

....It is remarkable that that Zuber describes, over many chapters, not only neutrino experiments, detectors and spectrometers in operation, but also those that are at present under construction or planned, such as the KATRIN experiment and the neutrino factory.

Neutrino Physics is a textbook at a level that is suitable for graduate students in physics and astrophysics. It can be highly recommended to anyone interested in this field, and to any advanced student who wants to learn more about this research topic and who needs to understand neutrino physics.

-- Klaus Blaum, CERN Courier

This is a useful and broad textbook, covering all of the essential material needed to understand the current status of neutrino physics. It would serve as an excellent, up-to-date, and thorough introduction to the subject for new researchers in the field, or as a valuable and handy reference for the more experienced scientist.

-- Dan Hooper, E-streams

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