



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

By Kai Zuber

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Neutrino Physics, Second Edition (Series in High Energy Physics, Cosmology and Gravitation) By Kai Zuber

When Kai Zuber's pioneering text on neutrinos was published in 2003, the author correctly predicted that the field would see tremendous growth in the immediate future. In that book, Professor Zuber provided a comprehensive self-contained examination of neutrinos, covering their research history and theory, as well as their application to particle physics, astrophysics, nuclear physics, and the broad reach of cosmology; but now to be truly comprehensive and accurate, the field's seminal reference needs to be revised and expanded to include the latest research, conclusions, and implications.

Revised as needed to be equal to the research of today, **Neutrino Physics, Second Edition** delves into neutrino cross sections, mass measurements, double beta decay, solar neutrinos, neutrinos from supernovae, and high energy neutrinos, as well as new experimental results in the context of theoretical models. It also provides entirely new discussion on:

- Resolution of the solar neutrino problem
- The first real-time measurement of solar neutrinos below 1 MeV
- Geoneutrinos
- Long baseline accelerator experiments

Written to be accessible to readers from diverse backgrounds, this edition, like the first, provides both an introduction to the field as well as the information needed by those looking to make their own contribution to it. And like the first edition, it whets the researcher's appetite, going beyond certainty to pose those questions that still need answers.

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Editorial Review

Review

praise for the first edition:

... extremely comprehensive and up-to-date ... an excellent introduction to this exciting field ... a handy reference source for the experts.

? Alan Watson, University of Leeds

... highly recommended to anyone interested in this field, and to any advanced student ... who needs to understand neutrino physics.

? Klaus Blaum, CERN Courier

... an excellent, up-to-date, and thorough introduction to the subject for new researchers in the field ... a valuable and handy reference for the more experienced scientist.

? Dan Hooper, E-streams

About the Author

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Deborah Mele:

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