



Springer

1st  
edition1st ed. 2021, XVI, 222 p. 64  
illus., 48 illus. in color.**Printed book**

Softcover

**Printed book**

Softcover

ISBN 978-3-030-51845-5

£ 22,99 | CHF 29,50 | 24,99 € |

27,49 € (A) | 26,74 € (D)

Available

**Discount group**

Springer Trade (T)

**Product category**

Popular science

Physics : Particle and Nuclear Physics

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# The Neutrino Story: One Tiny Particle's Grand Role in the Cosmos

- Written in a semi-popular style for those with a general physics background
- Explains in clear arguments and real-world applications the importance of this elusive subatomic particle
- Injects a human element through its recounting of the history and scientists behind neutrino physics

Every second of every day, we are exposed to billions of neutrinos emitted by the Sun, and yet they seem to pass straight through us with no apparent effect at all. Tiny and weakly interacting this subatomic particle may be, but this book will show you just how crucial a role it has played in the evolution of the elements in the universe, and eventually, ourselves. We first start with an introduction to the basics of subatomic physics, including brief backgrounds on the discoveries that set the stage for major 20th century advances. The author, a distinguished theoretical physicist who has researched neutrinos for over thirty years, next explains in nontechnical language how and why the neutrino fits into the wider story of elementary particles. Finally, the reader will learn about the latest discoveries in the past half century of neutrino studies. This semi-popular science book will appeal to any physics students or non-specialist physicists who wish to know more about the neutrino and its role in the evolution of our universe.

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ISBN 978-3-030-51845-5 / BIC: PHP / SPRINGER NATURE: SCP23002

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