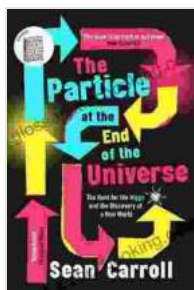


# How the Hunt for the Higgs Boson Leads Us to the Edge of a New World

The discovery of the Higgs boson in 2012 was a major scientific breakthrough that has revolutionized our understanding of the fundamental nature of matter. For decades, physicists had been searching for this elusive particle, which is responsible for giving other particles their mass. The Higgs boson is the last piece of the Standard Model of particle physics, which describes the fundamental forces and particles that make up the universe.



## The Particle at the End of the Universe: How the Hunt for the Higgs Boson Leads Us to the Edge of a New World

by James E Wisher

★★★★☆ 4.5 out of 5

Language : English  
File size : 19526 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Word Wise : Enabled  
Print length : 353 pages



In this groundbreaking book, physicist John Ellis takes us on a thrilling journey to the edge of a new world, where the secrets of the universe are waiting to be unraveled. Ellis, who was one of the leading scientists involved in the discovery of the Higgs boson, provides a firsthand account of the excitement and challenges of this groundbreaking research. He also

explains the profound implications of the Higgs boson's discovery for our understanding of the universe.

Ellis begins by introducing the Standard Model of particle physics and explaining the role of the Higgs boson in giving other particles their mass. He then describes the decades-long search for the Higgs boson, which culminated in its discovery at the Large Hadron Collider (LHC) at CERN, the European Organization for Nuclear Research. Ellis provides a detailed account of the experiments that led to the Higgs boson's discovery, and he explains the challenges that physicists faced in identifying this elusive particle.

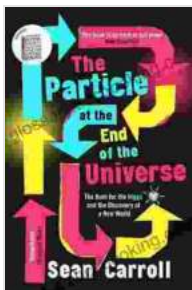
The discovery of the Higgs boson has opened up a new era in particle physics. Ellis argues that the Higgs boson is a gateway to a new world of physics, beyond the Standard Model. He explores the possible implications of the Higgs boson's discovery for our understanding of dark matter, dark energy, and the origin of the universe. Ellis also discusses the potential for new discoveries at the LHC and other future particle accelerators.

*How the Hunt for the Higgs Boson Leads Us to the Edge of a New World* is a must-read for anyone who wants to understand the latest developments in particle physics. Ellis's clear and engaging writing style makes this book accessible to a wide audience, from students to professional physicists. This book is a fascinating and thought-provoking exploration of the frontiers of human knowledge.

***Praise for *How the Hunt for the Higgs Boson Leads Us to the Edge of a New World****

"John Ellis is one of the world's leading particle physicists, and his book is a fascinating and authoritative account of the discovery of the Higgs boson. Ellis provides a clear and engaging explanation of the science behind this groundbreaking discovery, and he explores the profound implications of the Higgs boson's discovery for our understanding of the universe." — **Sean Carroll, author of *The Particle at the End of the Universe***

"John Ellis's book is a must-read for anyone who wants to understand the latest developments in particle physics. Ellis provides a clear and engaging explanation of the science behind the discovery of the Higgs boson, and he explores the possible implications of this discovery for our understanding of dark matter, dark energy, and the origin of the universe." — **Michio Kaku, author of *Parallel Worlds***



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