



The Large Hadron Collider

Don Lincoln

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Since 2008 scientists have conducted experiments in a hyperenergized, 17-mile supercollider beneath the border of France and Switzerland. The Large Hadron Collider (or what scientists call "the LHC") is one of the wonders of the modern world—a highly sophisticated scientific instrument designed to recreate in miniature the conditions of the universe as they existed in the microseconds following the big bang. Among many notable LHC discoveries, one led to the 2013 Nobel Prize in Physics for revealing evidence of the existence of the Higgs boson, the so-called God particle.

Picking up where he left off in *The Quantum Frontier*, physicist Don Lincoln shares an insider's account of the LHC's operational history and gives readers everything they need to become well informed on this marvel of technology.

Writing about the LHC's early days, Lincoln offers keen insight into an accident that derailed the operation nine days after the collider's 2008 debut. A faulty solder joint started a chain reaction that caused a massive explosion, damaged 50 superconducting magnets, and vaporized large sections of the conductor. The crippled LHC lay dormant for over a year, while technical teams repaired the damage.

Lincoln devotes an entire chapter to the Higgs boson and Higgs field, using several extended analogies to help explain the importance of these concepts to particle physics. In the final chapter, he describes what the discovery of the Higgs boson tells us about our current understanding of basic physics and how the discovery now keeps scientists awake over a nagging inconsistency in their favorite theory.

As accessible as it is fascinating, *The Large Hadron Collider* reveals the inner workings of this masterful achievement of technology, along with the mind-blowing discoveries that will keep it at the center of the scientific frontier for the foreseeable future.

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The book The Large Hadron Collider will bring you to the new experience of reading the book. The author style to explain the idea is very unique. In case you try to find new book to learn, this book very suitable to you. The book The Large Hadron Collider is much recommended to you to study. You can also get the e-book in the official web site, so you can quickly to read the book.

Patricia Rhee:

Exactly why? Because this The Large Hadron Collider is an unordinary book that the inside of the publication waiting for you to snap that but latter it will zap you with the secret it inside. Reading this book beside it was fantastic author who all write the book in such incredible way makes the content on the inside easier to understand, entertaining technique but still convey the meaning completely. So , it is good for you for not hesitating having this any more or you going to regret it. This unique book will give you a lot of advantages than the other book get such as help improving your talent and your critical thinking method. So , still want to delay having that book? If I have been you I will go to the reserve store hurriedly.

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