



Beyond the God Particle

By Leon M. Lederman, Christopher T. Hill

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Two leading physicists discuss the importance of the Higgs Boson, the future of particle physics, and the mysteries of the universe yet to be unraveled.

On July 4, 2012, the long-sought Higgs Boson--aka "the God Particle"--was discovered at the world's largest particle accelerator, the LHC, in Geneva, Switzerland. On March 14, 2013, physicists at CERN confirmed it. This elusive subatomic particle forms a field that permeates the entire universe, creating the masses of the elementary particles that are the basic building blocks of everything in the known world--from viruses to elephants, from atoms to quasars.

Starting where Nobel Laureate Leon Lederman's bestseller *The God Particle* left off, this incisive new book explains what's next. Lederman and Hill discuss key questions that will occupy physicists for years to come:

- * Why were scientists convinced that something like the "God Particle" had to exist?
- * What new particles, forces, and laws of physics lie beyond the "God Particle"?
- * What powerful new accelerators are now needed for the US to recapture a leadership role in science and to reach "beyond the God Particle," such as Fermilab's planned Project-X and the Muon Collider?

Using thoughtful, witty, everyday language, the authors show how all of these intriguing questions are leading scientists ever deeper into the fabric of nature. Readers of *The God Particle* will not want to miss this important sequel.

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Editorial Review

Review

“These are exciting times for particle physics. With their customary charm and wit, Lederman and Hill take us on a fascinating tour of where we’ve been and where we’re going and, along the way, give **the best description of the Higgs boson I’ve ever seen. A great read.**”

—James Trefil, Clarence J. Robinson Professor of Physics, George Mason University, coauthor of *Dictionary of Cultural Literacy*

Praise for the books of Lederman and Hill:

“A tour de force of physics made simple....”

—*Times Literary Supplement*

“Few books about modern physics are as fascinating, far-ranging, and readable as this.”

—*NSTA Recommends*

“Thought-provoking.”

—*Discover*

About the Author

Leon M. Lederman, Nobel Laureate (Batavia, IL) is the author of the highly acclaimed *Quantum Physics for Poets* and *Symmetry and the Beautiful Universe* (both coauthored with Christopher T. Hill), as well as *The God Particle* (with Dick Teresi). He has served as the editor of *Portraits of Great American Scientists* and a contributor to *Science Literacy for the Twenty-First Century*. He is formerly the Resident Scholar at the Illinois Mathematics and Science Academy and Pritzker Professor of Science at the Illinois Institute of Technology, and he is director emeritus of Fermi National Accelerator Laboratory.

Christopher T. Hill, PhD (Batavia, IL) is the coauthor with Leon M. Lederman of *Quantum Physics for Poets* and *Symmetry and the Beautiful Universe*. He is a theoretical physicist (Scientist III) and the former head of Theoretical Physics at Fermi National Accelerator Laboratory.

Users Review

From reader reviews:

Bernadine Williams:

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