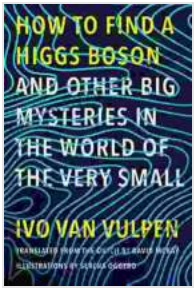
How To Find Higgs Boson And Other Big Mysteries In The World Of The Very Small

The Higgs boson is an elementary particle that was first predicted by Peter Higgs, Robert Brout, and Francois Englert in 1964. It is responsible for giving mass to other particles, and its discovery was a major milestone in physics.

The Higgs boson is very rare, and it took scientists at the Large Hadron Collider (LHC) nearly 50 years to find it. The LHC is the world's largest and most powerful particle accelerator, and it is located at CERN in Switzerland.



How to Find a Higgs Boson—and Other Big Mysteries in the World of the Very Small by Paul Doiron

4.6 out of 5

Language	: English
File size	: 4794 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Word Wise	: Enabled
Print length	: 268 pages

To find the Higgs boson, scientists needed to collide protons at very high energies. When protons collide, they can create a shower of other particles, including the Higgs boson. Scientists then need to filter out the Higgs bosons from the other particles.

The Higgs boson was finally discovered in 2012, and its discovery was a major breakthrough in physics. It confirmed the Standard Model of particle physics, which is the theory that describes the fundamental particles and forces of nature.

The discovery of the Higgs boson has opened up new possibilities for research in physics. Scientists are now using the LHC to search for other new particles, such as the supersymmetry particles. Supersymmetry is a theory that predicts that every particle has a supersymmetric partner.

The LHC is also being used to search for dark matter. Dark matter is a mysterious substance that makes up about 27% of the universe. Dark matter does not interact with light, so it is very difficult to detect.

The search for dark matter is one of the most important challenges in physics. If scientists can find dark matter, it will help them to understand more about the universe and its origins.

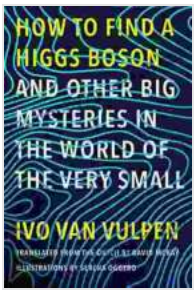
Other Big Mysteries In The World Of The Very Small

The Higgs boson is just one of many mysteries in the world of the very small. Other big mysteries include:

- The nature of dark matter
- The origin of the universe
- The existence of other dimensions
- The nature of consciousness

These are just a few of the many big mysteries that scientists are working to solve. As we continue to explore the world of the very small, we will learn more about the universe and our place in it.

The world of the very small is full of mysteries. The Higgs boson is just one of many particles that scientists are working to understand. As we continue to explore this realm, we will learn more about the universe and our place in it.



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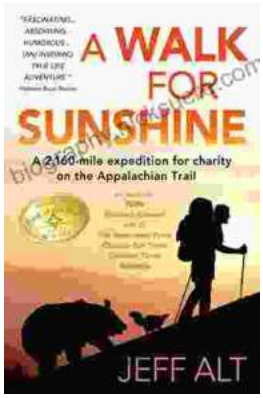

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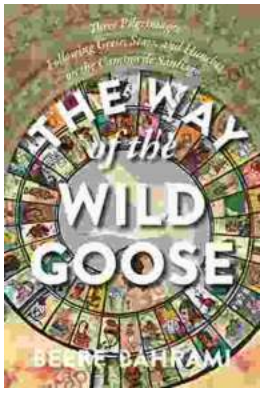

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