

# The Missing Particle That Sparked The Greatest Hunt In Science



## Massive: The Missing Particle That Sparked the Greatest Hunt in Science by Ian Sample

★★★★☆ 4.7 out of 5

Language	: English
File size	: 950 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Word Wise	: Enabled
Print length	: 286 pages



For decades, physicists have been searching for the Higgs boson, a subatomic particle that is thought to give other particles their mass. The discovery of the Higgs boson would be a major breakthrough in our understanding of the universe, and it would help us to answer some of the biggest questions about how the world works.

The Higgs boson is a key part of the Standard Model of particle physics, which is our best understanding of how the universe works at the smallest scales. The Standard Model predicts that the Higgs boson should exist, but it has never been directly observed. This is because the Higgs boson is very heavy, and it is only produced in very rare collisions in particle accelerators.

The Large Hadron Collider (LHC) at CERN is the world's largest and most powerful particle accelerator. The LHC was built to search for the Higgs boson, and it has been in operation since 2010. In 2012, the LHC team announced that they had found evidence of the Higgs boson, but more data was needed to confirm the discovery.

In 2013, the LHC team confirmed the discovery of the Higgs boson. This was a major breakthrough in particle physics, and it helped to solidify the Standard Model. The discovery of the Higgs boson also opened up new avenues of research, and it is now one of the most important areas of study in particle physics.

The Higgs boson is a fascinating particle, and it has played a major role in our understanding of the universe. The discovery of the Higgs boson is a testament to the power of human ingenuity, and it is a reminder that we are still only scratching the surface of our knowledge about the world around us.

### **Here are some additional details about the Higgs boson:**

- The Higgs boson is a massive elementary particle with no electric charge.
- It is the only known particle that does not belong to a family of particles.
- The Higgs boson is thought to be responsible for giving other particles their mass.
- It was discovered at the Large Hadron Collider at CERN in 2012.

- The Higgs boson is a key part of the Standard Model of particle physics.

## The discovery of the Higgs boson has had a number of important implications:

- It has confirmed the Standard Model of particle physics.
- It has opened up new avenues of research in particle physics.
- It has helped us to better understand the universe.

The Higgs boson is a fascinating particle that has played a major role in our understanding of the universe. The discovery of the Higgs boson is a testament to the power of human ingenuity, and it is a reminder that we are still only scratching the surface of our knowledge about the world around us.

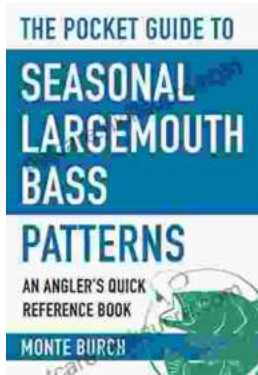


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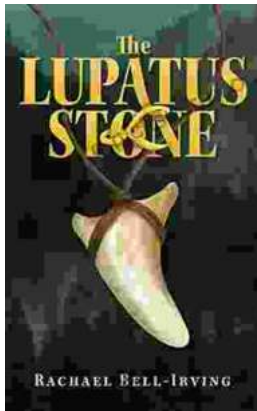
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