

to sell the book: **The Higgs Boson Discovery At The Large Hadron Collider Springer Tracts In.: ``html The Higgs Boson Discovery At The Large Hadron Collider: A Triumph Of Science**

The discovery of the Higgs boson at the Large Hadron Collider (LHC) was a major scientific breakthrough that confirmed the existence of the Higgs field, a fundamental component of the Standard Model of particle physics. The Higgs field gives mass to elementary particles, and its discovery was a major step forward in our understanding of the universe.

The Higgs field is a field of energy that exists throughout the universe. It is thought to be responsible for giving mass to elementary particles, such as quarks and leptons. The Higgs field is also thought to be responsible for the spontaneous symmetry breaking that occurred in the early universe, which led to the creation of the three fundamental forces of nature: the strong force, the weak force, and the electromagnetic force.

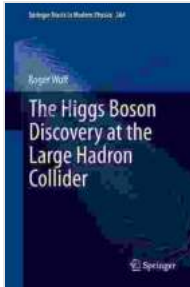
The Large Hadron Collider is the world's largest and most powerful particle accelerator. It is located at the European Organization for Nuclear Research (CERN) in Geneva, Switzerland. The LHC is used to collide protons at very high energies, which creates a shower of particles that can be studied by scientists.

The Higgs Boson Discovery at the Large Hadron Collider (Springer Tracts in Modern Physics Book 264)

by Laura Ingalls Wilder

★★★★★ 5 out of 5

Language : English



File size	: 12151 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Word Wise	: Enabled
Print length	: 390 pages



On July 4, 2012, scientists at CERN announced that they had discovered a new particle that was consistent with the Higgs boson. The particle was observed in two independent experiments at the LHC, and its mass was measured to be $125.3 \text{ GeV}/c^2$.

The discovery of the Higgs boson was a major scientific breakthrough. It confirmed the existence of the Higgs field, and it provided strong evidence for the Standard Model of particle physics. The discovery also opened up new avenues for research, and it is expected to lead to a better understanding of the universe.

The discovery of the Higgs boson is a major milestone in the history of physics. It is the first time that a new elementary particle has been discovered since the top quark in 1995. The discovery of the Higgs boson also provides strong evidence for the Standard Model of particle physics, which is the most successful theory of physics ever developed.

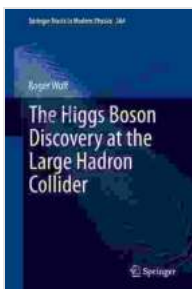
The discovery of the Higgs boson is also significant because it could lead to new discoveries in physics. For example, the Higgs boson could help us to understand why the universe is matter-dominated, and it could also provide insights into the nature of dark matter and dark energy.

The discovery of the Higgs boson is just the beginning of a new era of Higgs boson research. Scientists are now studying the Higgs boson in more detail to learn more about its properties. They are also looking for new ways to produce the Higgs boson, and they are searching for new particles that could be associated with the Higgs boson.

The Higgs boson is a fascinating particle that could hold the key to some of the most fundamental questions in physics. The future of Higgs boson research is bright, and it is likely that we will learn a great deal more about this particle in the years to come.

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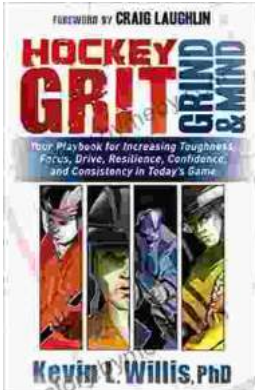
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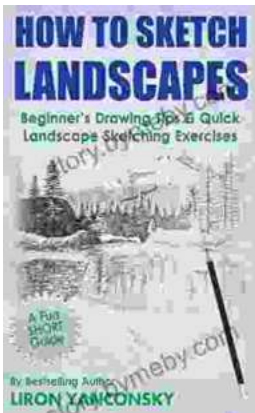
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