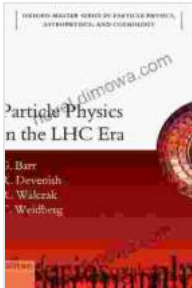


# Particle Physics In The Lhc Era: Oxford Master In Physics 24



## Particle Physics in the LHC Era (Oxford Master Series in Physics Book 24) by Samuel Hack

★★★★☆ 4.6 out of 5

Language : English

File size : 19792 KB

Screen Reader : Supported

Print length : 432 pages

Lending : Enabled



## The Large Hadron Collider (LHC)

The Large Hadron Collider (LHC) is the world's largest and most powerful particle accelerator. It is located at CERN, the European Organization for Nuclear Research, near Geneva, Switzerland. The LHC was built to explore the fundamental nature of matter and energy, and to search for new particles and phenomena.

The LHC is a circular particle accelerator with a circumference of 16.2 kilometers (10.1 miles). It accelerates protons to energies of 13 teraelectronvolts (TeV), which is about seven times the energy of the protons in the Large Electron-Positron Collider (LEP), which was previously the world's most powerful particle accelerator.

The LHC has four main experiments: ALICE, ATLAS, CMS, and LHCb. These experiments are designed to study different aspects of particle

physics, such as the properties of the Higgs boson, the search for new particles, and the study of the strong force.

## **The Oxford Master in Physics**

The Oxford Master in Physics is a one-year postgraduate degree program that provides students with a deep understanding of the fundamental principles of physics. The program is taught by world-leading physicists, and students have access to state-of-the-art research facilities.

The Oxford Master in Physics is designed for students who want to pursue a career in research or academia. The program provides students with the skills and knowledge necessary to succeed in a competitive field.

## **Particle Physics in the LHC Era**

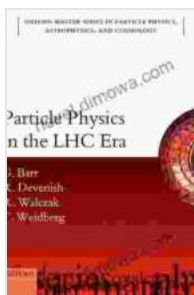
The LHC has opened up a new era in particle physics. The discovery of the Higgs boson in 2012 was a major milestone, and the LHC is now being used to search for new particles and to study the properties of the Higgs boson in more detail.

The LHC is also being used to study the strong force, which is one of the four fundamental forces of nature. The strong force is responsible for holding the nuclei of atoms together, and it is the strongest of the four forces.

The LHC is a powerful tool that is helping us to understand the fundamental nature of matter and energy. The LHC is also helping us to search for new particles and to study the properties of the Higgs boson in more detail.

The LHC is a major scientific instrument that is helping us to understand the fundamental nature of matter and energy. The Oxford Master in Physics is a one-year postgraduate degree program that provides students with a deep understanding of the fundamental principles of physics.

The LHC and the Oxford Master in Physics are two important resources for students who want to pursue a career in particle physics.



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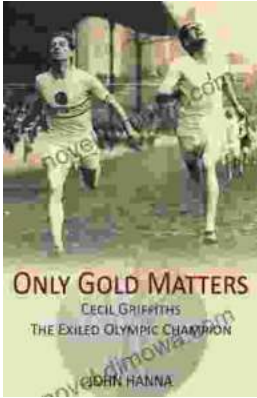
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