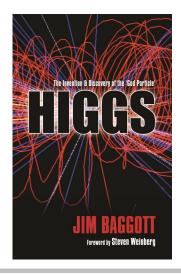
The Higgs Boson - What does it mean?

Oxford University Press announces an immediate publication following the announcement by the Director General of CERN on 4 July that a new particle has been discovered that is consistent with the predicted Standard Model Higgs boson. Bestselling science author Jim Baggott (The Quantum Story), explains exactly what has been discovered, how it was predicted, and the implications. Written over the past 18 months, and finalized once the announcement had been made, Higgs: The Invention and Discovery of the 'God Particle' makes the science superbly accessible.



HIGGS: The Invention & Discovery of the 'God Particle' by Jim Baggott

Foreword by Steven Weinberg (Theoretical Physicist, Nobel Laureate, 1979)

Hardback | 304 pages

ISBN: 978-0-19-960349-7 (Expected end of August in Japan)

Suggested Retail Price: ¥2,016 incl. tax (List Price: ¥1,920)

The hunt for the Higgs particle has involved the biggest, most expensive experiment ever. So what is this particle called the Higgs boson? Why does it matter so much? What does this new particle tells us about the Universe? And was finding it really worth all the effort?

The short answer is yes, and there was much at stake: our basic model for the building blocks of the Universe, the Standard Model, would have been in tatters if there was no Higgs particle. The Higgs field had been proposed as the way in which particles gain mass - a fundamental property of matter. Little wonder the hunt and discovery have produced such intense media interest.

Here, Jim Baggott explains the science behind the discovery, looking at how the concept of a Higgs field was invented, how it is part of the Standard Model, and its implications on our understanding of all mass in the Universe.

Readership: Popular science readers intrigued by news stories surrounding the discovery of the elusive Higgs boson.

Please order through your usual bookseller.

Price may vary depending on variables such as currency conversion rate

TABLE OF CONTENTS

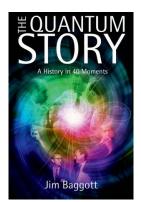
Preface by Steven Weinberg Prologue: Form and substance

- 1. Invention
- 1: The poetry of logical ideas
- 2: Not a sufficient excuse
- 3: People will be very stupid about it
- 4: Applying the right ideas to the wrong problem
- 5: I can do that
- 2. Discovery
- 6: Alternating neutral currents
- 7: They must be Ws
- 8: Throw deep
- 9: A fantastic moment
- 10: The Shakespeare question

Epilogue: The construction of mass

Endnotes Glossary **Bibliography** Index

Pertinent Recommended Readings



THE QUANTUM STORY A History in 40 Moments

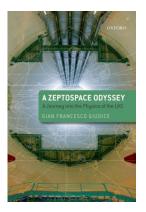
By Jim Baggott
Hardback | 496 pages
ISBN: 978-0-19-956684-6
(Published February 2011)

Sugg. Retail: ¥ 2,279 incl. tax (List Price: ¥ 2,170)

Utterly beautiful. Profoundly disconcerting. Quantum theory is quite simply the most successful account of the physical universe ever devised. The pursuit of its implications has been the driving motivation of physicists for 100 years. Jim Baggott traces the story, the personalities and the rivalries, through 40 turning-point moments.

"An accessible and informative history" - Science

"A truly exceptional book" - CERN Courier



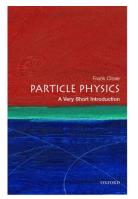
Finalist for the Galileo Prize 2012 A ZEPTOSPACE ODYSSEY A Journey into the Physics of the LHC

By Gian Francesco Giudice Hardback | 288 pages ISBN: 978-0-19-958191-7 (Published December 2009)

Sugg. Retail: ¥ 3,696 incl. tax (List Price: ¥ 3,520)

This book provides an everyman's guide for understanding and following the discoveries that will soon take place at the famous Large Hadron Collider experiments at CERN. The material is presented accurately yet accessibly, and the book is infectious in its enthusiasm for the project.

Particularly recommended for the students of science as well as teachers from high school to all university levels, professional scientists of any background, journalists and figures in public funding and policy who may be required to write about or discuss the LHC with some knowledge.



PARTICLE PHYSICS A Very Short Introduction

By Frank Close

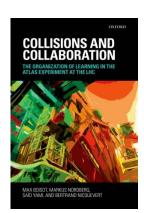
Paperback | 160 pages ISBN: 978-0-19-280434-1 (Published May 2004)

Sugg. Retail: ¥ 1,050 incl. tax

(List Price: ¥ 1,000)

An introduction to the fundamental constituents of the universe. Beginning with a guide to what matter is made of and how it evolved, the author goes on to describe the techniques used to study it. He discusses quarks, electrons, and the neutrino, exotic matter, and antimatter. He also investigates the forces of nature, accelerators, and more.

Recommended for the general readers interested in popular science; students of physics at school and college level; professional scientists; science teachers



COLLISIONS AND COLLABORATION The Organization of Learning in the ATLAS Experiment at the LHC

By Max Boisot, Markus Nordberg, Saïd Yami, and Bertrand Nicquevert Hardback | 336 pages

ISBN: 978-0-19-956792-8 (Published July 2011)

Sugg. Retail: ¥ 3,360 incl. tax (List Price: ¥ 3,200)

The Large Hadron Collider at CERN is the world's largest scientific experiment involving 3,000 scientists from 38 countries. Here a team of organization theorists collaborate with leading figures at CERN to understand how this project has been organized and what lessons can be learnt for the management of major projects and 'big science'.

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