

From Ultra Rays to Astroparticles

A Historical Introduction to Astroparticle Physics

The scope of the book is to give an overview of the history of astroparticle physics, starting with the discovery of cosmic rays (Victor Hess, 1912) and its background (X-ray, radioactivity).

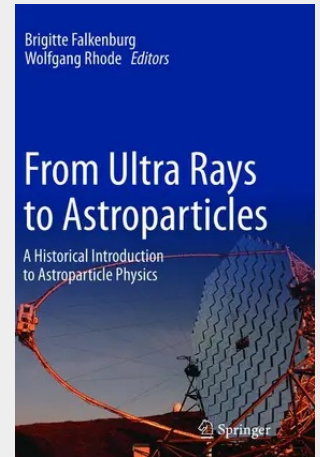
The book focusses on the ways in which physics changes in the course of this history.

The following changes run parallel, overlap, and/or interact:

- Discovery of effects like X-rays, radioactivity, cosmic rays, new particles but also progress through non-discoveries (monopoles) etc.
- The change of the description of nature in physics, as consequence of new theoretical questions at the beginning of the 20th century, giving rise to quantum physics, relativity, etc.
- The change of experimental methods, cooperations, disciplinary divisions.

With regard to the latter change, a main topic of the book is to make the specific multi-disciplinary features of astroparticle physics clear.

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160,49 €

149,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9789400794559

Medium: Buch

ISBN: 978-94-007-9455-9

Verlag: Springer

Erscheinungstermin: 29.01.2015

Sprache(n): Englisch

Auflage: 2012

Produktform: Kartoniert

Gewicht: 540 g

Seiten: 346

Format (B x H): 155 x 235 mm

