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Physics : Astrophysics and Astroparticles

Falkenburg, Brigitte, Rhode, Wolfgang (Eds.), TU University Dortmund Philosophy and Political Science, Dortmund, Germany

From Ultra Rays to Astroparticles

A Historical Introduction to Astroparticle Physics

- Provides a unique historical introduction to astroparticle physics to celebrate the 100th anniversary of the cosmic ray discovery
- Covers the roots and development of the exciting field of astroparticle physics
- Written by a multidisciplinary group of experts in the field

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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