Universität Münster

Fachbereich Physik

Allgemeines Physikalisches Kolloquium

Verleihung des Lehrpreises

Donnerstag, 04.07.2024 - 16 Uhr c.t.

© DESY

Prof. Beate Heinemann

Deutsches Elektronen-Synchrotron DESY

Understanding the Quantum Universe: particle physics status and plans

Mankind has long been wondering what matter is made of. This area of research is subject of the field of particle physics and during the past 100 years enormous progress has been made, resulting not only in the discovery of the fundamental constituents of matter (quarks and leptons) but also of the force carriers that mediate the interactions between them, and the Higgs boson that has various roles and ultimately makes our existence possible. The questions of particle physics have evolved to now try to understand the underlying principles that have resulted in this picture of our World, and how these relate to what happened in the early Universe. High priorities are for instance why there is so much more matter than anti-matter, why gravity is so much weaker than the other forces or what Dark Matter is. In this talk I will present highlights from the current research activities and what is planned for the coming years and decades.

wissen.leben

Kolloquiums-Kaffee ab 16 Uhr vor dem Hörsaal

Institutsgruppe 1 – HS 2
Wilhelm-Klemm-Str. 10