PHYSIKALISCHES KOLLOQUIUM

Sommersemester 2024

Das Kolloquium findet (soweit nicht anders angegeben) **jeweils montags um 16:15 Uhr in Präsenz im Röntgen-Hörsaal** des Physikalischen Instituts, Hubland Campus Süd, Universität Würzburg **und online via Zoom statt**. (Der jeweilige Link wird noch zur Verfügung gestellt.)

24.06.2024

Prof. Dr. Alexander Huss
CERN, Department of Theoretical Physics

Precision phenomenology to lighten the path to discoveries

Abstract

High-energy colliders, such as the Large Hadron Collider (LHC) at CERN, allow to probe the fundamental laws governing the interactions among elementary particles at unprecedented energies. A full exploitation of this machine critically relies on the precision at which we can confront the experimental data with theory predictions: to consolidate our description of nature, increase the sensitivity to subtle deviations, and uncover clues that guide us towards a more complete picture. I describe techniques and recent results for precision calculations and discuss their impact for particle phenomenology.

Für die Dozentinnen bzw. Dozenten der Fakultät

Prof. Dr. Hinkov, Prof. Dr. Hinrichsen, Prof. Dr. Porod, Dr. Ünzelmann und Hr. Kuhr