technische universität
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SEMINAR TEILCHENPHYSIK

Thema

Rare Decays: The Sharpest Tools for New Physics at LHCb

Abstract

Loop-induced “penguin” decays involving the heavy beauty quark have long been known to be sensitive to new heavy particles from Beyond the Standard Model physics. In fact, precision flavor physics allows probing energy scales much higher than the TeV region accessible via direct searches at the LHC, evidenced by the emergence of the so-called “b-anomalies”.

This talk will focus on our ongoing work on the lepton flavor universality test via angular analysis in $\Lambda^0_b \to pK^-\ell^+\ell^-$ decays and on our involvement in the design of game-changing radiative decay triggers for LHCb Run 3 physics program in $b \to s\gamma$ transitions.

Vortragender

Dr. Debashis Sahoo
Eötvös Loránd University Budapest

Ort

CP-O3-123

Zeit

Donnerstag, 02.10.2025
15:00 – 16:00 Uhr

im Auftrag:

Dr. Maik Becker