

SEMINAR TEILCHENPHYSIK

Thema

Branching fraction analysis
of $\Lambda_b \rightarrow p\pi\mu\mu$ decays with
the full Run 1 and Run 2
LHCb dataset

Abstract

Rare flavour changing neutral current (FCNC) decays are good probes for beyond the Standard Model (SM) physics, particularly through the study of $b \rightarrow d\ell^+\ell^-$ transitions, which are highly suppressed in the SM. This talk will focus on the $\Lambda_b \rightarrow p\pi\mu\mu$ branching fraction analysis performed with the LHCb detector using Run 1 and Run 2 data. Experimental techniques employed will be discussed including: reduction of background sources, Monte Carlo corrections, efficiency computations and preliminary results will be shown.

Vortragender

Piera Battista
Universität Paris-Saclay

Ort

CP-O3-123

Zeit

Donnerstag, 15.05.2025
16:00 – 17:00 Uhr

im Auftrag:

Dr. Maik Becker