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Radiative Rare b-Hadron Decays at LHCb

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Radiative rare b-hadron decays offer a unique window into potential contributions from physics beyond the Standard Model through precise measurements of branching fractions, angular distributions, CP-violating observables, and photon polarization. The LHCb experiment, with its high-efficiency trigger system, excellent tracking resolution, and advanced particle identification capabilities, provides an ideal environment for studying these decays. This talk presents the latest LHCb results on radiative rare b-hadron decays, including new precise measurements of the $b \rightarrow s\gamma$ photon polarisation and upcoming results on Cabibbo-suppressed $b \rightarrow d\gamma$ decays.

Secondary track

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