

Charmless b-meson and b-baryon decays at LHCb

Charmless b-meson and b-baryon decays to pseudoscalar or vector mesons proceed via suppressed $b \rightarrow u$ tree and $b \rightarrow s, d$ penguin diagrams, and are sensitive probes of physics beyond the Standard Model. Relevant observables are branching fractions, CP asymmetries, polarisation fractions and T-odd correlations. Unexpected values of these observables have the potential to reveal New Physics. Moreover the sector of charmless b-baryon decays is almost unexplored and peculiar to LHCb. We present the latest LHCb results with these decays obtained using the data sample collected during the first run of the LHC.

Summary

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