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Charmless b-hadron decays at LHCb

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Decays of beauty hadrons to charmless final states receive relevant contributions from penguin topologies where new physics beyond the Standard Model may appear as virtual contributions. The presence of these new particles can be revealed comparing the branching fractions and CP asymmetries of these decays with the Standard Model expectations. In addition, the combination of several quantities and the study of the decay dynamic over the phase space of multibody decays allow the models used to deal with QCD effects to be validated. In this presentation the most recent analyses of charmless b-hadron decays performed by LHCb are presented.

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