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Hadronic B decays to Open Charm

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Abstract:

The LHCb experiment is a general purpose forward spectrometer operating at the Large Hadron Collider, optimized for the study of B and D hadrons. LHCb collected $\sim 1\text{fb}^{-1}$ of integrated luminosity during 2011 data taking, which provides an unprecedentedly large sample of B hadron decays to final states involving charmed hadrons. These decays offer many complementary measurements of CP violation and the CKM matrix parameters, as well as a laboratory for testing effective theories of hadron decays. We present a selection of new world leading results in these types of decays, including first observations of new decay modes, world best branching ratio measurements and lifetime measurements, analyses of the resonant structure of these decays, and measurements of CP violating parameters.

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