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Studies of hadronic B decays to final states containing open charm mesons at LHCb

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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 1.0 fb⁻¹ of integrated luminosity during 2011 data taking, collecting unprecedented large samples of B hadron decays to final states involving charmed hadrons. These decays offer many complementary measurements of CP violation and CKM matrix parameters, and serve 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 studies of resonant structure.

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