

CP violation and precision measurement of CKM parameters at LHCb

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Heavy-flavour hadrons allow the study of discrete symmetries, most notably of CP violation, but also T, CPT, as well as lepton and hadron flavour symmetries. The LHCb experiment is a general purpose forward spectrometer operating at the Large Hadron Collider, optimised for the study of B and D hadrons. LHCb has collected an integrated luminosity of 3fb^{-1} , which provides an unprecedented large sample of heavy-flavour hadrons. These data allow many complementary precision measurements of CP violation and CKM parameters, as well as searches for lepton-flavour violating processes. An overview of these results and prospects for future improvements will be presented.

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