

CP violation and mixing in charm at LHCb

LHCb has collected the world's largest sample of charmed hadrons. This sample is used to 1) measure direct CP violation in D mesons and charmed baryons, 2) measure D^0 - D^0 bar mixing and the first non-zero mass difference, and to 3) search for CP violation in mixing and interference. New measurements from several decay modes are presented, as well as prospects for future sensitivities.

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