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Hadronic charm decays at BESIII

Saturday, 17 August 2019 14:55 (20 minutes)

BESIII has collected data samples corresponding to luminosities of 2.93 fb-1, 3.19 fb-1 and 0.567 fb-1 at center-of-mass energies of 3.773, 4.178, and 4.6 GeV, respectively. The data set collected at 3.773 GeV contains quantum-correlated D0D0bar pairs that allow to access the phase differences between amplitudes. We report the measurements of strong phase differences in D0(-bar) decays, especially for K_S/Lpi+pi-, which can reduce the gamma/phi3 measurement uncertainty at LHCb and Belle II. In addition, we report the measurements of the absolute branching fraction and amplitude analysis of D+, D0, Ds+ and Lambda_c+

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