

30th International Symposium on Lepton Photon Interactions at High Energies



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Hadronic charm decays at BESIII

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BESIII has collected 2.93 fb⁻¹ of data at 3.773 GeV, 6.3 fb⁻¹ of data between 4.18 and 4.23 GeV, and 4.4 fb⁻¹ of data between 4.6 and 4.7 GeV, respectively. The data set collected at 3.773 GeV contains quantum-correlated D⁰D⁰_{bar} pairs that allow access to the phase differences between amplitudes. We will report the measurements of strong phase differences in D⁰(-bar) decays, such as K_S⁻/L⁺ pi⁺ pi⁻, K_S⁻/L⁺ K⁺ K⁻, K⁻ pi⁺ pi⁰ and K⁻ pi⁺ pi⁻, which are key to constraining the future gamma/phi3 measurements at LHCb and Belle II. In addition, we will present the measurements of the absolute branching fraction or amplitude analysis of hadronic decays of D⁺, D⁰, Ds⁺ and Lambda_c⁺.

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Session Classification: Quark and charged lepton flavour

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