

# Hadronic charm meson decays at BESIII

*Tuesday, 28 July 2020 20:14 (15 minutes)*

BESIII has collected data samples corresponding to luminosities of  $2.93 \text{ fb}^{-1}$  and  $3.19 \text{ fb}^{-1}$  at center-of-mass energies of 3.773 and 4.178 GeV, respectively. The data set collected at 3.773 GeV contains quantum-correlated  $D^0\bar{D}^0$  pairs that allow access to the phase differences between amplitudes. We report the measurements of strong phase differences in  $D^0$  decays, including  $KS/L \pi^+ \pi^-$ , which can reduce the  $\gamma/\phi^3$  measurement systematic uncertainty at LHCb and Belle II. In addition, we report the measurements of the absolute branching fractions and the amplitude analyses of  $D^+$ ,  $D^0$ , and  $D_s$  decays.

## I read the instructions

## Secondary track (number)

**Primary author:** LIN, Chuangxin (Sun Yat-Sen University)

**Presenter:** LIN, Chuangxin (Sun Yat-Sen University)

**Session Classification:** Quark and Lepton Flavour Physics

**Track Classification:** 05. Quark and Lepton Flavour Physics