



Contribution ID: 174

Type: Oral

Quantum correlated D meson measurements at BESIII

Strong phase parameters measured for $D^0 \rightarrow f$ meson are performed studying quantum correlated $\psi(3770) \rightarrow D^0 \bar{D}^0$ decay by BESIII collaboration for f final states. These parameters serve as an important input to constrain $D^0 - \bar{D}^0$ meson mixing parameters and constraining the direct measurement of unitary triangle angle γ/ϕ_3 from B meson decays. Measurement of coherence factor and strong phase parameters for quasi-flavor modes $D^0 \rightarrow K^- \pi^+ \pi^- \pi^+$, $D^0 \rightarrow K^- \pi^+ \pi^0$ and mixed CP modes $D^0 \rightarrow K^+ K^- \pi^+ \pi^-$, $D^0 \rightarrow K_S^0 K^+ K^-$, $D^0 \rightarrow K_S^0 \pi^+ \pi^-$ are presented in this talk.

Field of contribution

Experiment

Author: KUMAR, Neeraj (Research Scholars)**Presenter:** KUMAR, Neeraj (Research Scholars)**Track Classification:** Quark and lepton flavour physics