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Measurement of CP violation in $D^+ \rightarrow \pi^+ \pi^0$ decays at BaBar

The status of CP violations in charm sector is still unsettled. According to SM, the predicted asymmetries are small, but often affected by large uncertainties due to long-distance effects. However, it is possible to build observables which SM predicts to be CP -conserving, so that any measured asymmetry is undoubtedly a sign of New Physics. We present the analysis of CP -asymmetries of singly Cabibbo-suppressed decays $D^+ \rightarrow \pi^+ \pi^0$, using the final dataset collected by BaBar. We discuss the sensitivity to CP -violating phases, and the correspondent New Physics constraints.

Experimental Collaboration

BABAR

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