

Recent results on violation of discrete symmetries in charm decays at BaBar and Belle

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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, with no doubts, a sign of New Physics.

We present recent results on charm CP violation at Belle and BaBar. We show the measurement of CP asymmetries in $D^+ \rightarrow K^+ K^- \pi^+$, $D^+ \rightarrow K_S K^+$, $D_s^+ \rightarrow K_S K^+$, $D_s^+ \rightarrow K_S \pi^+$ at BABAR. Moreover, we show the Belle measurements of indirect CP violation parameters from $D^0 \rightarrow K_S \pi \pi$ decay.

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