

Search for CP violation and rare decays in charm sector at Belle

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Using more than 920fb-1 data collected with the Belle detector at the KEKB asymmetric-energy e+e- collider, we report the first measurement of the T-odd moments in the decay $D^0 \rightarrow KS^0\pi^0\pi^+\pi^-$. We search for CP-violation in decays $D^0 \rightarrow KS^0KS^0$ and $D^+ \rightarrow \pi^+\pi^0$. All the results are consistent with no CP violation. We also report the result from the first search for D^0 decays to invisible final states. No significant signal yield is observed and an upper limit is set on the branching fraction at 90% confidence level.

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