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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 $D^0 \to K_S^0 \pi^0 \pi^+ \pi^-$ and the first observation of the radiative charm decay $D^0 \to \rho^0 \gamma$. We search for CP-violation in decays $D^0 \to K_S^0 K_S^0$, $D^+ \to \pi^+ \pi^0$, $D^0 \to \omega \gamma$ and $D^0 \to K^* \gamma$. 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.

Experimental Collaboration

Belle

Presenter: NAYAK, Minakshi (Indian Institute of Technology Madras) **Session Classification:** Flavour and symmetries

Track Classification: Flavour Physics and Fundamental Symmetries