

Search for CP violation in $D^0 \rightarrow \pi^- \pi^+ \pi^0$ decays at LHCb

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The LHCb experiment has recorded the world's largest sample of charmed meson decays. This contribution will present a new measurement involving for the first time a decay into a final state containing a neutral pion. The search for CP violation exploits a novel model-independent, un-binned technique to assign a p-value for the no CP violation hypothesis. With a data sample size exceeding that of previous measurements by almost an order of magnitude a significant step in sensitivity is expected.

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