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First measurements of the ϕ_3 sensitive decay $B^+ \rightarrow D(K_S \pi^+ p^- \pi^0) K^+$ with Belle

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We present the first model-independent measurement of the CKM angle ϕ_3 using $B^\pm \rightarrow D(K_S^0 \pi^+ \pi^- \pi^0) K^\pm$ decays. The GGSZ method is used by binning the a five-dimensional phase space of the D decay. This analysis uses the measurement of the average strong-phase differences across the phase space in $D \rightarrow K_S^0 \pi^+ \pi^- \pi^0$ decays from CLEO-c, as input. The results are obtained from the full Belle data set with an integrated luminosity of 711 fb^{-1} collected at the $\Upsilon(4S)$ resonance.

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