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First measurements of the phi_3 sensitive decay B+ -> D(Ks pi+ p- pi0) K+ with Belle

Thursday 11 July 2019 10:30 (20 minutes)

We present the first model-independent measurement of the CKM angle ϕ_3 using $B^\pm \to D(K_{\rm S}^0\pi^+\pi^-\pi^0)K^\pm$ 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 $D \to K_{\rm S}^0\pi^+\pi^-\pi^0$ 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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