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$B \rightarrow DK$ Dalitz plot analyses for ϕ_3 at Belle

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Dalitz plot analyses of $D \rightarrow K_S^0 hh$ ($D = D^0$ or \bar{D}^0 , $h = K$ or π) decays following $B \rightarrow D^{(*)} K^{(*)}$ decay provide sensitive measurements of CP-violating angle ϕ_3 . We present the first measurement of the CP-violating angle ϕ_3 using a model-dependent Dalitz plot analysis of $B \rightarrow DK$, $D \rightarrow K_S^0 K^\pm \pi^\mp$ decays, and unique model-independent Dalitz plot analysis of $B^0 \rightarrow DK^*(892)^0$ decays followed by $D \rightarrow K_S^0 \pi^+ \pi^-$ and $K^*(892)^0 \rightarrow K^+ \pi^-$. These measurements use a full data set of 711 fb^{-1} collected at the $\Upsilon(4S)$ resonance by the Belle detector at the KEKB collider.

Summary

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