

Measurement of CP violating asymmetries in $B^0\bar{B}^0 \rightarrow D^{(*)0} K_S^0$

Using 467 million $Upsilon(4S) \rightarrow B\bar{B}$ decays collected with the BaBar detector at the PEP-II B factory, we report on improved measurements of the branching fractions of $B^0\bar{B}^0 \rightarrow D^{(*)0} K_S^0$ along with a measurement of the weak phase $2\beta + \gamma$ obtained from a time-dependent analysis of the aforementioned decays.

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