

Measurement of CP-violating asymmetries and branching fractions in $B^0 \rightarrow K^0 \bar{K}^0$ with the full BaBar dataset

We present improved measurements of the branching fraction and the CP-violating parameters S and C in the time evolution of the $B^0 \rightarrow K^0 \bar{K}^0$ system based on all data collected at the $\Upsilon(4S)$ resonance by the BaBar experiment at SLAC. Signal yields and CP-violating asymmetries are determined simultaneously using kinematic and B^0 flavor-tagging information in a multidimensional maximum-likelihood fit.

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