

DISCRETE 2014: Fourth Symposium on Prospects in the Physics of Discrete Symmetries



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Study of CP asymmetry in $B^0 - \text{anti}B^0$ mixing using inclusive dilepton samples in BaBar

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The asymmetry between same sign inclusive dilepton samples $l^+ l^+$ and $l^- l^-$ from semileptonic B decays in $Upsilon(4S) \rightarrow B^0 \text{anti}B^0$ events allows us to compare B mixing probabilities $P(\text{anti}B^0 \rightarrow B^0)$ and $P(B^0 \rightarrow \text{anti}B^0)$, and therefore to test the T and CP invariance. We present the measurement of CP asymmetry in inclusive dilepton samples with the full BaBar dataset near $Upsilon(4S)$ resonance, corresponding to 471 million B-antiB pairs.

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