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## Study of CP asymmetry in $B^0$ - $\bar{B}^0$ 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  $Upsilon(4S) \rightarrow B^0 \bar{B}^0$  events allows us to compare B mixing probabilities  $P(\bar{B}^0 \rightarrow B^0)$  and  $P(B^0 \rightarrow \bar{B}^0)$ , 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  $B$ - $\bar{B}$  pairs.

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