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Study of CP asymmetry in B^0 - B^0 bar 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 $Upsilon(4S) \rightarrow B^0 B^0$ bar events allows us to compare B^0 mixing probabilities $P(B^0$ bar $\rightarrow B^0)$ and $P(B^0 \rightarrow B^0$ bar), 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 the $Upsilon(4S)$ resonance, corresponding to 471 million $B\bar{B}$ bar pairs.

Oral or Poster Presentation

Oral

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