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Mixing-induced CP asymmetry in semileptonic B-meson decays at BaBar

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We present the measurements of mixing-induced CP asymmetry in semileptonic B-meson decays using the full data set collected at the peak of the $Y(4S)$, with the BABAR detector at SLAC. The lepton charge directly identifies the B meson flavor in decays; charged kaon is also used in tagging B meson flavor. Asymmetry between B meson pairs decay as B^0 - B^0 and B^0 - B^0 indicates CP violation in mixing.

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