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CDF results on CP violation in hadronic B decays

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Using the complete 10/fb dataset, the CDF experiment has studied CP violation in several hadronic decay modes of bottom hadrons.

In the decays of B_d , B_s , and Λ_b hadrons into charmless two-body final states, we present results including improved measurements of the branching ratios and time-integrated CP-violating asymmetries of known decays and tightened constraints on these quantities for the as yet unobserved modes. In flavor-tagged $B_s \rightarrow J\psi\phi$ decays, we have measured the B_s mixing phase, lifetime, and width-difference. We also present world's best results on the $B_s \rightarrow J\psi\phi$ and $D_s D_s$ branching fractions.

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