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Precision measurements of direct CP violation in D0->pipi at CDF

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Using 6 fb-1 of data, the CDF experiment presents a new measurement of CP-violating asymmetries in D*-tagged D0->pi^+pi^- decays, where any enhancement from the standard model prediction (of the order of 10-3) would be unambiguous evidence for New Physics. A technique combining asymmetries of pi^+pi^-, and K^-pi^+ D0 decays highly suppresses systematic uncertainties due to detector charge-asymmetric efficiencies allowing a world-leading measurement limited only by statistical uncertainties.

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