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Rare b decays and CP violation at the Tevatron

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The experiments at the Tevatron, CDF and D0, have access to one of the world's largest samples of charm and beauty hadrons decays. These provide information competitive and complementary to that from dedicated flavor facilities. With the analysis of the full Run II data sample, this successful program has now reached its maturity. I review recent Tevatron flavor physics results, focusing on those that are specifically sensitive to departures from the Standard Model, such as searches for rare B decays, measurements of CP-violation in charm, and bottom-strange decays.