

## High Energy Physics - Experiment

# Rare decays / B<sub>s</sub> CPV measurements at Tevatron

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Measurements of Flavor Changing Neutral Current (FCNC) processes (rare decays, flavor mixing) play a key role to pursue new physics beyond the Standard Model. We present recent analysis results about some FCNC transitions performed by CDF and D0 collaborations, including the first observation of the B<sub>s</sub>->phi mu<sup>+</sup>mu<sup>-</sup> mode, the forward-backward asymmetry measurement in B->K<sup>\*</sup> mu<sup>+</sup>mu<sup>-</sup>, and updated measurements of B<sub>s</sub> (B<sup>0</sup>)->mu<sup>+</sup>mu<sup>-</sup>, using data corresponding to integrated luminosities from 3.7/fb to 5/fb. We also show the CDF/D0 combined measurement of the B<sub>s</sub> mixing phase using 2.8/fb of data per experiment.

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