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Searches for BSM physics using flavour transitions at the Tevatron

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We report recent results from indirect searches for BSM physics using flavor processes in the whole sample of 9.6 fb^{-1} collected by CDF in Tevatron Run II. These include the final measurements of flavor-changing-neutral-current, rare $B \rightarrow \mu^+ \mu^-$ and $B \rightarrow K \mu^+ \mu^-$ decays, the final measurements of the bottom-strange mixing phase (ϕ_s) using $B_s \rightarrow J/\psi \Phi$ decays, measurements of the branching fractions of $B_s \rightarrow D_s^{(\pm)} D_s^{(\mp)}$ that help constrain $\Delta\Gamma_s$, and searches for charge-parity violation in charm decays. D_0 results will also be presented.

Primary authors: Mr TONELLI, Diego (Pisa); GRILLO, Lucia

Presenter: GRILLO, Lucia

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