

Abstract Submitted
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Search for rare flavor-changing and electroweak penguin decays of the B_s^0 meson RALF BERNHARD, Physik Institut der Universitat Zurich, Switzerland, DZERO COLLABORATION — Using 1 fb^{-1} of data collected with the DØ detector in Run II of the Tevatron, limits are presented for searches for the rare flavor changing neutral current decay $B_s^0 \rightarrow \mu^+ \mu^-$, as well as $B_s^0 \rightarrow \mu^+ \mu^- \phi$. The former decay mode is particularly sensitive to supersymmetric extensions of the Standard Model. For the latter mode, a measurement of the branching ratio could validate the prediction of the Standard Model.

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