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Searches for Supersymmetry and other Physics beyond the Standard Model at the Tevatron¹

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Despite the extraordinary accuracy of its predictions, the Standard Model of Particle Physics suffers from a number of unsolved problems, such as the hierarchy problem. Here, We report on searches for physics beyond the Standard Model, focusing on searches for evidence for Supersymmetry, in $p\bar{p}$ collisions at $\sqrt{s}=1.96$ TeV using data collected by the D0 and CDF collaborations in the Run 2 phase of the Tevatron program.

¹for the CDF and D0 Collaborations