

Global searches at the Tevatron

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Model-independent global searches for new physics have been performed at the CDF and D0 experiments. Using 2 fb⁻¹ of data, at CDF nearly 400 final states are examined, looking for discrepancies between the observed data and the standard model expectation in populations, kinematic shapes, and the tails of the summed transverse momentum distribution. A significant improvement to the sensitivity is achieved searching also in approximately 5000 mass variables looking for 'bumps' that might indicate resonant production of new particles. At D0, global and model-independent searches are performed in final states involving leptons using 1 fb⁻¹ of data.

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