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Searches for Squarks and Gluinos in Jets and Missing Energy Final States at CDF

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We present results on searches for squarks and gluinos in proton-antiproton collisions in Run II at the Tevatron. Events containing jets of hadrons and large missing transverse energy in the final state are studied and compared to standard model predictions. In addition to inclusive multijet final states, events containing b-tagged and c-tagged jets are studied in order to enhance the sensitivity to final states containing the third-generation scalar top and scalar bottom supersymmetric partners. Data samples corresponding to up to 3/fb of integrated luminosity are used. MSSM scenarios are employed to interpret the results and set mass limits.

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