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## Searches for Sbottom Quarks with the D0 Detector

In supersymmetry, the partner of the bottom quark could be among the lightest supersymmetric particles. In that case, it would be produced abundantly at the Fermilab Tevatron collider. We search for pair-produced sbottom quarks each decaying to a bottom quark and an undetected lightest neutralino in 5.4 fb<sup>-1</sup> of data and obtain the most stringent limits to date on the sbottom quark mass.

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