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Searches for hidden valley particles with D0 detector in ppbar collisions at Fermilab

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In hidden valley scenarios, new particles with relatively light masses
are hypothesized to
exist in a “potential valley” separated from the
standard model by a high potential barrier. At high energy colliders,
this barrier could be
crossed leading to the production of hidden valley
particles which could decay to standard model particles after
moderately short lifetimes.
Results from multiple searches for hidden valley
particles in ppbar collisions at a center-of-mass energy of 1.96 TeV,
collected by the D0
detector at the Fermilab Tevatron collider are reported.

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