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Hidden Valley Phenomenology

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We describe a class of models called “hidden valleys”, which consist of low mass hidden sector quarks charged under a new confining gauge group. Such sectors arise often in string theories and elsewhere. The phenomenology of these sectors is often qualitatively different from other beyond the standard model physics, giving rise to long lived hidden sector hadrons, high invariant mass jets, and multiple isolated leptons in the final state. We discuss search methods for hidden valleys at hadron colliders.

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