

Exotic quarks in Twin Higgs models

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In UV-complete realizations of the Twin Higgs mechanism, exotic fermions charged under both SM and twin gauge symmetries appear. Some of these states carry visible color, and can therefore be produced with sizable rates at hadron colliders. The decays of these exotic quarks give rise to striking signatures, which involve a combination of prompt and displaced objects. We present an analysis of the relevant phenomenology.

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