

Extra dimensions and micro black holes at the LHC

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Models with extra dimensions have been proposed to solve outstanding problems of the Standard Model. In some of those models the strength of gravity is increased at TeV energies and unified with the electroweak interaction.

New studies are presented on the sensitivity to searches for new gauge bosons, such as W' and Z' bosons and other high mass resonances, as predicted e.g. by Randall-Sundrum models; to searches for large (ADD) extra dimensions in channels with missing transverse energy; to searches with di-photon final states; to searches for universal extra dimensions, and to searches for micro black hole production at the LHC.

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