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Drell-Yan Bound on Continuum Spectra from Extra Dimensions

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We present bounds on 5D theories that have a mass gap followed by a continuous spectrum. These theories involve a metric with a warp factor and are controlled by a single parameter ρ . Using Drell-Yan data simulated from MadGraph, Pythia8, and Delphes for charged lepton and dilepton events we perform a χ^2 analysis for the differential cross section predicted by the 5D theory and measured by the Standard Model.

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