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750 GeV Diphoton Resonance in Warped Geometries

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We examine the scenario of a warped extra dimension containing bulk SM fields in light of the observed diphoton excess at 750 GeV. We demonstrate that a bulk spin-2 graviton whose action contains localized kinetic brane terms is compatible with the excess, while being consistent with all other constraints. This model contains a single free parameter, the mass of the first gauge Kaluza-Klein excitation. The scale of physics on the IR-brane is found to lie in the range of a few TeV, relevant to the gauge hierarchy.

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