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Possible early signs of warped space at the LHC

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One of the most interesting theoretical scenarios for extending the Standard Model is based on the notion of a single warped extra-dimension. Though the original idea was proposed to address the Planck-weak hierarchy, it actually can also lead to an understanding of flavors. As purely a theory of flavor the UV cut-off may be much much less than the Planck mass and may be around 10^4 TeV. The corresponding Kaluza-Klein electroweak gauge bosons may be at a few TeV scale and can have significantly enhanced signals at the LHC. For example, a 2 TeV Z' may require only around $1/\text{fb}$ luminosity in the very clean di-lepton channel. Implications for the LHC of such a modest application of the warped space idea for the LHC are discussed.

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