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A Dark Matter candidate from Lorentz Invariance in 6 Dimensions

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I will present the unique 6 dimensional orbifold with chiral fermions where a stable dark matter candidate is present due to Lorentz invariance on the orbifold, with no additional discrete symmetries imposed by hand. We propose a model of Universal Extra Dimensions where a scalar photon of few hundred GeV is a good candidate for dark matter. The spectrum of the model is characteristic of the geometry, and it has clear distinctive features for the LHC phenomenology compared to previous models of Kaluza-Klein dark matter.

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