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Test of the diphoton + missing transverse energy background model in ATLAS KAMILE YAGCI, Southern Methodist University, ATLAS COLLABORATION — I present the data and MC comparisons for the selection variables of the two photon + E_T^{miss} final state in ATLAS experiment. The data is taken from the proton-proton collisions of the 7 TeV center of mass energy at the Large Hadron Collider. The data sample studied was the initial 3.1 pb^{-1} taken in the 2010 run. This analysis excluded the gravity mediated One Universal Extra Dimension model with ΛR=20, N=6 and $M_D = 5$ TeV for a curvature $1/R \leq 725$ GeV at 95% C.L., where Λ is the cutoff scale, N is the number of large extra dimensions and M_D is the (4+N)-dimensional Planck scale.

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