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Search for New Physics with Mono-Jet and Missing Transverse Energy in 7 TeV pp collisions at CMS

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A study of events with missing transverse energy plus a single energetic jet using 35 pb^{-1} of pp collision data at 7 TeV, collected by the CMS detector at LHC is presented. This topology is a signature of large extra dimensions in the framework of the ADD model, and the unparticles. The number of observed events is in good agreement with the prediction of the Standard Model. The 95% CL limits on the number of extra dimensions and energy scale of the model are set, leading to significant improvement to the current limits on parameters of both models.

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