

KEK Theory Meeting on Particle Physics Phenomenology (KEK-PH2018 winter) and 3rd KIAS-NCTS-KEK workshop on Particle Physics Phenomenology

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Gravity-mediated dark matter

Tuesday, 4 December 2018 17:30 (15 minutes)

We consider a Kaluza-Klein (KK) massive spin-2 graviton as the mediator between dark matter (DM) and Standard Model (SM) particles. KK graviton can mediate the annihilations of dark matter into SM particles and it can be searched for at the LHC through monophoton and dijet channels, etc. In some benchmark models for massive gravitons, we discuss the DM-nucleon spin-independent elastic scattering and show that the parameter space for the DM relic density is consistent with current direct/indirect detection and collider searches.

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Session Classification: Parallel Session 1