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Dark Matter Annihilation Decay at the LHC

Thursday 27 August 2015 16:30 (20 minutes)

I will discuss the possibility of producing DM bound states at the LHC, emphasizing on two popular scenarios that contain large DM self-couplings: the higgsinos in the lambda-SUSY model, and the DM particles in the self-interacting DM (SIDM) framework. Instead of generating missing energy signatures, these dark bound states have annihilation decays into visible particles in the detector and provide interesting signals for the heavy resonance search.

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