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LHC Implications of WIMP Dark Matter and Grand Unification

Monday, 29 August 2011 11:15 (20 minutes)

Assuming that dark matter consists of an electroweak triplet and that the gauge couplings unify at a high scale, I will point out a robust phenomenological trends towards new colored states within LHC reach. Specially, these new colored particles are either collider stable or alternatively decay promptly to final states that include Higgses. I will show that both cases are promising for the LHC: Collider stable new states should be highly visible already for the early LHC and the prompt decay scenario features a strong new Higgs production channel that can be competitive with Standard Model Higgs production.

Presenter: Ms KÖPP, Karoline (Florida State University)

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