



Contribution ID: 162

Type: **Parallel Session Talk**

WIMPlless Dark Matter: Models and Signatures

Saturday, 24 July 2010 09:50 (17 minutes)

The recently proposed WIMPlless dark matter scenario provides a dark matter candidate which can have a wide range of possible masses, while still retaining the naturally correct thermal relic density of the WIMP scenario. WIMPlless dark matter thus leads to a broad array of possible signatures at current and upcoming experiments. We review the WIMPlless scenario and discuss detection strategies. We focus on possible signatures at the Tevatron, the LHC and IceCube/DeepCore, and on specific models which can explain data from DAMA/LIBRA and CoGeNT.

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Session Classification: 11 - Particle Astrophysics and Cosmology

Track Classification: 11 - Particle Astrophysics and Cosmology