

A New Motivation for WIMP Dark Matter

Thursday, 15 August 2013 11:30 (40 minutes)

I will discuss constraints necessary for the consistency of certain 4d string compactifications which go beyond those necessary for vanilla anomaly cancellation. Most realizations of the standard model do not satisfy these constraints, motivating the addition of new electroweak multiplets which are often protected by symmetry. This provides a new theoretical motivation for WIMP dark matter which neither requires nor precludes weak-scale supersymmetry.

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Session Classification: Field and String Theory

Track Classification: Field and String Theory