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 <h2>From the Planck Scale to the Electroweak Scale</h2>

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Naturalness of Light Neutralino Dark Matter

Thursday 23 May 2013 16:00 (15 minutes)

We (P. Grothaus, M. Lindner, Y. T.) investigate neutralino dark matter in the low-energy phenomenological minimal supersymmetric standard model taking account of the newest results from the Large Hadron Collider as well as all other experimental bounds from collider physics and the cosmological abundance. We find that near updates of direct searches signicantly rule out a large area of the parameter space, but will not rise the minimal value of fine-tuning. There is a band at small neutralino masses, where the fine-tuning stays low even for cross-sections of about 10⁴-16} pb.

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Session Classification: Parallel Session on LHC and DM