ID de Contribution: **32** Type: **Ordinary**

Reconciling Supersymmetry and Thermal Leptogenesis

jeudi 17 mars 2011 11:20 (15 minutes)

The entropy produced in the decays of super-weakly interacting particles may help to reconcile thermal leptogenesis and Big Bang Nucleosynthesis (BBN) in scenarios with gravitino dark matter, which is usually difficult due to late decays of the next-to-lightest supersymmetric particle (NLSP) spoiling BBN. We study this possibility for a general neutralino NLSP. We discuss the constraints on the entropy-producing particle, considering as an example the saxion from the axion multiplet. We show that, in addition to enabling a solution of the strong CP problem, it can indeed produce a suitable amount of entropy.

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Classification de Session: Flavour Physics and Leptogenesis

Classification de thématique: Theory