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Signals of Supercritical String Theory at the LHC

Monday 30 July 2007 17:50 (20 minutes)

Recently, it is shown that the modifications of the Boltzmann equation describing the evolution of relic abundances due to dilaton dissipative-source and non-critical-string terms change the cosmologically allowed parameter space of SUSY model. In this talk, we will investigate the allowed parameter space in the context of minimal SUGRA boundary condition at the LHC. We will characterize the experimental final states to distinguish the new scenario from the standard scenario. We will also discuss the impact of the new scenario in dark matter detection rates.

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