Contribution ID: **10** Type: **not specified**

Starobinsky-like inflation and SUSY at the LHC

Monday 26 June 2017 17:00 (30 minutes)

We discuess a recent simple modification of the no-scale supergravity Wess-Zumino model of Starobinsky-like inflation to include a Polonyi term in the superpotential. The purpose of this term is to provide an explicit mechanism for supersymmetry breaking at the end of inflation. We show how successful inflation can be achieved for a gravitino mass satisfying the strict upper bound $m_{3/2} < 10^3 TeV$, with favoured values $m_{3/2}\ O(1) TeV$. The model suggests that SUSY may be discovered in collider physics experiments such as the LHC or the FCC.

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Session Classification: Contributed Talks