Contribution ID: **180** Type: **Talk**

Dmitri Nanopoulos (TAMU): Starobinsky-like inflation, supercosmology and neutrini masses in no-scale flipped SU(5)

Thursday 22 February 2018 12:19 (14 minutes)

Flipped SU(5) is embedded in a no-scale supergravity framework and discuss its predictions for cosmic microwave background observables which are Starobinsky-like, with a possible variation in the ratio r of the tensor to scalar perturbations. I'll discuss the model's predictions for neutrino masses,and show their dependence on the inflaton mass,thus correlating the heavy right-handed neutrino mass to the inflaton/inflatino one. Strong reheating is favored that leads,through supercosmology, to a GUT phase transition without excessive entropy production which could dilute the generated baryon asymmetry.

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Session Classification: Session 7