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## **Inflation with dissipation and metastability**

*Thursday, 22 June 2017 15:00 (15 minutes)*

We analyze two models in which primordial inflation has non-standard features. In the first model we study the evolution of a system in which the inflaton is slowed down by dissipation of energy into gauge bosons instead of the usual Hubble friction: in particular we study the conditions of the onset of such a scenario from a static field configuration, its evolution and we mention some features of the treatment of perturbations. In the second model we consider the case of a metastable vacuum which sources exponential inflation and we show that the presence of scalar-tensor gravity can induce a power-law expansion which allows successful tunneling. We also analyze the case in which such a metastable vacuum might be in the Standard Model Higgs potential.

### **Presentation type**

Parallel talk

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