



# PHYSICS AND ASTRONOMY SEMINAR

## Dr. Hooman Davoudiasl

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### “Inflatable Dark Matter”

#### Abstract

“We describe a general scenario, dubbed "Inflatable Dark Matter," in which the density of dark matter particles can be reduced through a short period of late-time inflation in the early universe. Thermal or non-thermal relics that would otherwise be disfavored can easily be accommodated within this class of scenarios. A period of late-time inflation could have occurred over a wide range of scales from  $\sim$  MeV to the weak scale or above, and could have been triggered by physics within a hidden sector, with small but not necessarily negligible couplings to the Standard Model.”

Tuesday, October 27, 2015

1:00 p.m.

Elliott Building

Room 161