



LABORATORY FOR ELEMENTARY-PARTICLE
PHYSICS (LEPP)

Theory Seminar



Cody Long

Northeastern University

**Axion Reheating
the Landscape**

I will discuss reheating in generic string compactifications, i.e. those with many hidden sectors and axions. The presence of many hidden sectors are dangerous if the inflaton couples strongly to them, as this may result in overproduction of dark matter. We examine the distribution of axion couplings to gauge sectors in the largest known explicit ensemble of F-theory geometries, and find that preferential reheating is possible. I will explain the geometric origin of such a preference.

Friday, Feb.8, 2019

1pm

401 Physical Sciences Building