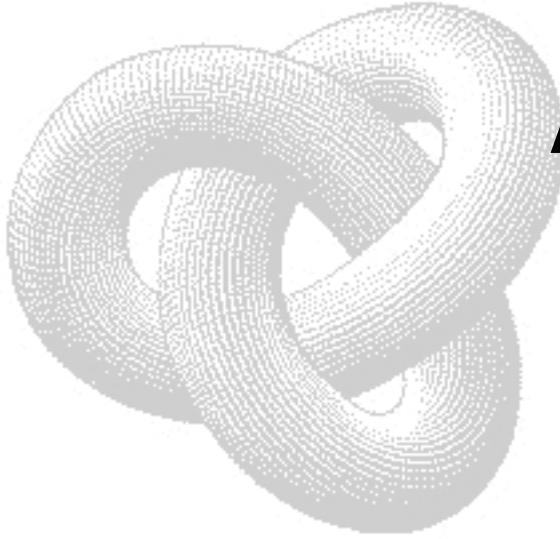


# The UNH Lectures on Physics



## Announcing

A Seminar Presentation

on May 9, 2014

at 1:15 pm in Lee 301

at The University of New Haven

**Philip Mannheim**

Department of Physics  
University of Connecticut

## The Crisis in Fundamental Physics

### Abstract

Cosmology deals with the the astrophysical macroscopic universe on large scales while fundamental physics deals with the particle physics microscopic universe on small ones. Recently it has become apparent that large and small scale physics are actually intertwined leading to an astroparticle picture of the universe. At the present time this picture has achieved great success, but at the same time it has led to many open questions and challenges, challenges which threaten to potentially undermine the entire picture. These challenges include dark matter, dark energy, the cosmological constant problem, quantum gravity, the status of supersymmetry, the multiverse picture, extra spacetime dimensions, and the nature of the Higgs boson. In this talk we review these issues and suggest that their resolution would require a paradigm shift in our view of the universe.

### Further Information

For further information, please contact the Department of Mathematics and Physics Office in Maxcy 204 at 203-932-7250.