

Carnegie Mellon University
Department of Physics

McWilliams Center for Cosmology

Colloquium

Dr. Andrew Tolley
Perimeter Institute for Theoretical Physics
Waterloo, Canada

Tuesday, December 1, 2009

4:30 pm

7316 Wean Hall

“Dynamics in the Dark”

Abstract:

**If Dark Energy is dynamical, it would indicate the existence
Of new physics beyond the standard model coupled to gravity.
I will argue that the best motivated models of this new physics
Are all tied to whatever resolves the cosmological
constant problem, and discuss the cosmological
Implications of several proposals that have been put
Forward in this vein.**