University of Notre Dame
College of Science
Department of Physics

PARTICLE PHYSICS SEMINAR

Looking for the Origin of Neutrinos Masses: from neV to YeV

Professor André de Gouvêa
Northwestern University

Tuesday, October 5, 2010 4:00 p.m. NSH 415

Non-zero neutrino masses, conclusively established a little over a decade ago, indicate that there is "new physics" beyond the standard model. While we have learned much about these new neutrino properties, we have learned little about the nature of this new physics. Here, after briefly reviewing what we have learned about neutrinos from neutrino oscillation experiments, I will present a biased overview of several different candidates for the physics behind neutrino masses in order to illustrate how much we still need to learn and where we expect qualitatively new information to come from.

ALL INTERESTED PERSONS ARE CORDIALLY INVITED TO ATTEND