

University of Notre Dame
College of Science
Department of Physics

COLLOQUIUM

Are we descended from heavy neutrinos?

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Wednesday, November 17, 2010 4:00 p.m. NSH 118

(Refreshments at 3:30 p.m. NSH 202)

We will explain the physics of neutrino oscillation, whose discovery has taught us that neutrinos have nonzero masses. Then we will briefly review what has been learned about the neutrinos so far, and identify the major open questions. We will explain why these questions are interesting, discuss ideas for answering them through future experiments, and report several recent experimental surprises. We will highlight a particularly intriguing open question: Are neutrinos the key to understanding why the universe contains matter but almost no antimatter, making it safe for life?

Host: John LoSecco

ALL INTERESTED PERSONS ARE CORDIALLY INVITED TO ATTEND