

UCLA Department of Physics & Astronomy

COLLOQUIUM

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Neutrinos from the Sky and Through the Earth

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The progress in neutrino physics over the past quarter century has been tremendous: we have learned that neutrinos have mass and change flavor. This discovery won the 2015 Nobel Prize. I will pick out one of the main threads of the story -- the measurement of flavor oscillation in neutrinos produced by cosmic ray showers in the atmosphere, and further measurements by long-baseline beam experiments. In this talk, I will present the latest results from the Super-Kamiokande and T2K (Tokai to Kamioka) long-baseline experiments, and will discuss how the next generation of high-intensity beam experiments will address some of the remaining puzzles.

Undergraduates Welcome!