



UNIVERSITY of  
DENVER

PHYSICS AND ASTRONOMY

Presents

## Neutrino Oscillations and the 2015 Nobel Prize in Physics



Wednesday, November 4, 2015

4:00 PM

F.W. Olin Hall Room 105

2190 E. Iliff Avenue

*Presented by*

**Professor Walter Toki**

University of California, Berkeley

This year's 2015 Nobel Prize in Physics has been awarded to Prof. Kajita of the University of Tokyo and Prof. McDonald of Queens University, for the discovery of neutrino oscillations. Prof. Kajita was a leader of the Super Kamiokande experiment in the Kamioka mine in Japan which observed atmospheric neutrino oscillations in 1998 and Prof. McDonald was a leader of the SNO experiment at the Sudbury Mine in Canada that observed solar neutrino oscillations in 2002. In this talk I will review briefly the neutrino oscillation theory and then describe the remarkable measurements from the Super Kamiokande and SNO experiments. In addition, I will review the latest oscillation results from the long baseline experiments of the T2K and Nova collaborations.

**Note: P&A Graduate Student talk 4:00-4:05PM:**

**Leah Huk: *Modeling Spectropolarimetric Signatures of Type II In SNe***

**HOST: Dr. Mark Siemens, (303) 871-3541, [Mark.Siemens@du.edu](mailto:Mark.Siemens@du.edu)**

**Join us for PIZZA and a special reception in the Olin Rotunda 5:00-6:30 PM**