

Friday, October 30, 2015

4:10 – 5:00 PM

EPS103

Femtosecond 2-photon spectroscopy: are two better than one?

Professor Aleks Rebane

Physics Department, Montana State University

Bozeman, MT USA

<http://www.physics.montana.edu/people/faculty/rebane-aleks.html>

<http://www.physics.montana.edu/arebane/research/index.html>

Abstract:

Two-photon absorption is a nonlinear-optical process, where two photons are absorbed *Simultaneously*, and it is usually facilitated by high peak photon flux provided by femtosecond lasers. This colloquium will present an overview of different aspects of two-photon spectroscopy in my group over the last 15 years, which include improved measurement techniques, photodynamic therapy of cancer, all-optical determination of molecular electric fields as well as some other applications.

Host: Rufus Cone

***** Refreshments served in the EPS second floor atrium at 3:45 *****