



# PHYSICS AND ASTRONOMY SEMINAR

**Dr. Jeremy Heyl**

University of British Columbia

## **“Snow and the Seven Thousand White Dwarfs”**

### Abstract

Using the Hubble Space Telescope our group has built an unprecedented sample of nearly seven thousand white dwarfs in the globular cluster 47 Tucanae. I will describe how we use these white dwarfs to measure dynamical relaxation in the core of the cluster, constrain the epoch of mass loss in the post-main sequence evolution of solar-like stars, probe the cross-section of neutrinos in the keV regime, constrain the properties of the axion and maybe even see stars snowing.

Friday April 7, 2017

1:00 p.m.

Clearihue Building

Room A207