



University
of Victoria

PHYSICS AND ASTRONOMY SEMINAR (In-Person Only)

Dr. Janosz Dewberry
CITA Fellow, University of Toronto

**“All the Small Waves: Seismology and Tides in Rapidly
Rotating Planets and Stars”**

Abstract

Saturn and Jupiter both spin rapidly, at 40% and 30% of the rotation rates at which they would start to fly apart. Numerous rapidly and/or differentially rotating stars have been identified in Kepler and TESS observations. Rapid rotation modifies the propagation of seismic and tidal waves that in turn provide insight into internal structure. I will introduce some of the effects that very rapid rotation has on stellar and planetary oscillations, and describe the footprints that waves in rapidly rotating bodies can leave in planetary sciences and astronomical survey data.

**Monday, November 25th
3:00pm PST
ELL 161**

Hosted by Dr. Simon Blouin & Dr. Falk Herwig