## **SEMINAR NOTICE**

## Department of Physics and Engineering Physics University of Saskatchewan

SPEAKER:	Ethan Runge, PhD Candidate Department of Physics & Engineering Physics
TOPIC:	Vertical Trace Gas Profiles from an Infrared Fourier Transform Spectrometer.
DATE:	Tuesday March 14 <sup>th</sup> , 2023
TIME:	3:30-4:30 p.m.
PLACE:	Physics 103

## Abstract:

The Limb Imaging Fourier-Transform Spectrometer Experiment (LIFE) instrument is a balloon-borne prototype designed to take vertical images of atmospheric limb emissions in the mid-infrared with the intent to determine vertical trace gas profiles for greenhouse gases such as H2O, O3, CH4, and N2O. The instrument seeks to demonstrate the validity of using commercially available components in instrument design to reduce uncertainty in observational records and modelling parameters for dynamic, temporal and radiative effects in the upper troposphere/lower stratosphere (UTLS) region of the atmosphere.