



University  
of Victoria

# PHYSICS AND ASTRONOMY COLLOQUIUM (Online)

**Dr. Ingrid Stairs**  
University of British Columbia

**“Evidence for Low-Frequency Gravitational Waves from  
Pulsar Timing”**

## Abstract

“Precision timing of an array of millisecond radio pulsars spread across the sky can be used to look for low-frequency gravitational waves. In June 2023, the North American Nanohertz Observatory for Gravitational Waves (NANOGrav), along with other pulsar timing array collaborations, released evidence for such gravitational waves, likely in the form of a stochastic background due to supermassive black hole binaries in the universe. I will review the NANOGrav observational and detection methods, and discuss the implications of our find.”

Wednesday, January 24<sup>th</sup>, 2024

3:30 p.m. PST

Zoom link available on Uvic Event Calendar