



**Western University**  
**Department of Physics and Astronomy**

## **PHYSICS & ASTRONOMY COLLOQUIUM**

**Date:** **Thursday, 3 October 2019**  
**Time:** **1:30 p.m.**  
**Location:** **Physics & Astronomy Seminar Room 100**

### **Dr. Wendy Taylor**

Department of Physics and Astronomy  
York University

### ***"The Mysterious Magnetic Monopole"***

#### **ABSTRACT**

The possible existence of the magnetic monopole—a particle with only a north or a south magnetic pole—has been pondered by physicists for over a century. Theoretical physicist Joseph Polchinski once said it is “one of the safest bets that one can make about physics not yet seen”. In this talk, I will explain the theoretical motivations for the magnetic monopole, describe its unique properties and signatures, and review some of the many experimental magnetic monopole searches, including the latest results from the ATLAS detector at the CERN Large Hadron Collider.

**HOST:** P. Barmby

***COFFEE + light snacks will be available in the Atrium, 2nd floor, at 1:15 p.m.***