# **Geometry Seminar**

### **Speaker:**

#### **Thomas Baird Memorial University of Newfoundland**

Monday, January 29, 2018 1:00 p.m., HH-3013

## Moduli spaces of vector bundles over a hyperelliptic curve and quadric intersections

#### Abstract:

This is the first in a series of talks on moduli spaces of vector bundles over a real curve. This is a subject rich with connections to geometry (algebraic, symplectic, and differential), topology, and quantum field theory.

In this first talk, I will review some basic concepts and then present an elementary construction of the moduli due to Desale, Narasimhan, and Ramanan which is valid when the curve is hyperelliptic. If time permits, I will present my recent work (w/ Hu) applying the DNR Theorem to real hyperelliptic curves.