

# Geometry Seminar

**Speaker:**

**Thomas Baird**

**Memorial University of Newfoundland**

**Monday, February 5, 2018**

**1:00 p.m., HH-3013**

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

**Abstract:**

This is the second 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 second talk, I explain how a hyperelliptic curve can be constructed as a branched cover over the Riemann sphere and use this to give a more explicit version of the DNR theorem introduced at the end of the first lecture. Then I will report on my recent work with Shengda Hu extending the DNR theorem to study moduli spaces of *real* vector bundles over a *real* hyperelliptic curve.