## Geometry Seminar

## Tom Baird, Memorial University

Wednesday, February 13<sup>th</sup>, 2013 HH-3013, 4:00p.m.

Symplectic geometry and quantum field theory III: Topology of symplectic quotients.

## Abstract:

This is the third of a series of lectures on symplectic geometry, Hamiltonian actions and topological quantum field theory. This talk will be explain the process of Hamiltonian reduction, by which symmetries of a phase space can be "modded out" to produce a lower dimensional phase space called the symplectic quotient. We will also explore the rich topological relationship between the initial phase space and its quotient.