

Math Seminar

Tom Baird, Memorial University

Wednesday, February 6, 2013

HH3013

4:00-4:50 pm

Symplectic Geometry and Quantum Field Theory II: Loop spaces and the Dirac operator

Abstract:

This is the second in a series lectures on symplectic geometry, Hamiltonian actions and quantum field theory. This lecture will explain how equivariant localization on the loop space of a Riemannian manifold can be used to prove the Atiyah-Singer Index Theorem for the Dirac operator.