

University of Notre Dame Department of Mathematics

## FELIX KLEIN SEMINAR

**Ryan Grady**

University of Notre Dame

*Will give a lecture entitled:*

### **The Atiyah Class in Geometry and Derived Geometry**

*On*

Thursday March 31, 2011

*At*

2:00 PM

*In*

125 Hayes-Healy Hall

***Abstract***

The idea of the Atiyah class goes back to Atiyah's study of the existence of holomorphic connections. Molino then generalized Atiyah's construction in the context of Riemannian foliations. In this talk we discuss these classical inputs and the modern formulation of the Atiyah class for any connection on a differential graded module. This is the first talk-of two-in which an approach to derived geometry and its relation to perturbative field theory is described.