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**Speaker:** Nikhil Savale  
University of Notre Dame

Thursday, September 19, 2013  
2:00 PM  
258 Hurley Hall

**Title:** Asymptotics of the eta invariant

**Abstract:**

In this talk we consider twisted Dirac operators coupled to a family of unitary connections on a Hermitian line bundle. We prove an asymptotic bound on the eta invariant of this family of operators. We describe an explicit computation of the eta invariant in the case when the base manifold is the unit circle bundle of a positive line bundle. This problem has applications to the Weinstein conjecture and is closely related to the holomorphic Morse inequalities of Demailly.