



Speaker: Vesna Stojanoska
Massachusetts Institute of Technology

Tuesday, February 5, 2013
4:00 PM
127 Hayes-Healy Hall

Title: Modular forms and duality in topology

Abstract:

It has been known for many years that geometric and number-theoretic information can shed important light on some difficult problems in homotopy theory. More recently, this interaction has been exploited to a great effect in the construction of so-called topological modular forms. In this talk we will motivate the emergence of topological modular forms and describe some of their fascinating properties with an emphasis on a geometric duality that they exhibit, as well as their significance in the study of homotopy groups of spheres.