Topology, Arithmetic, & Dynamics Seminar

Hyperbolic localization and nearby cycles

Tom Haines

Department of Mathematics
University of Maryland, College Park

This talk is about spaces with G_m-action and equivariant complexes on such spaces. A recent theorem of Timo Richarz proves that Braden's hyperbolic localization theorem is valid over an arbitrary base. As a consequence, the hyperbolic localization theorem commutes with the nearby cycles functor. I will explain these statements, and their application to the study of nearby cycles on degenerations of affine Grassmannians. This is joint work with Timo Richarz.

Date: **Friday, May 5, 2017**
Time: **2:30-3:20 pm**
Place: **4106 Exploratory Hall**

For special accommodations, please contact Sean Lawton via email at `slawton3@gmu.edu`.