

Topology, Arithmetic, & Dynamics Seminar

Genus of complete intersections in spherical varieties

Kiumars Kaveh

Department of Mathematics
University of Pittsburgh

I will start with the classical result of Khovanskii on genus of complete intersections in algebraic torus $(\mathbb{C}^*)^n$. I will then discuss our recent work generalizing this to complete intersections in a spherical homogeneous space G/H . We give formula for the genus in terms of number of lattice points strictly inside certain convex polytopes (namely moment and Newton-Okounkov polytopes). Important classes of examples are complete intersections in flag varieties G/P as well as the group G itself. This is a joint work with Askold Khovanskii.

Date: **Friday, February 19, 2016**

Time: **2:30-3:30pm**

Place: **4106 Exploratory Hall**

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