Department of Mathematics
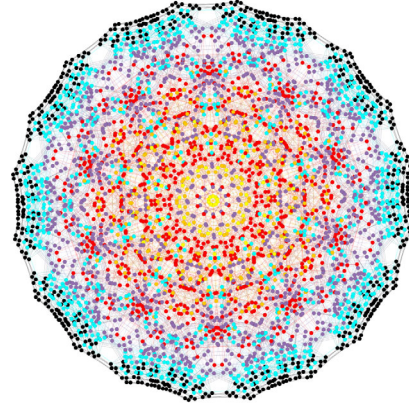## University of Notre Dame

FELIX KLEIN SEMINAR

Speaker: Zach Greenberg

Max Planck Institute Leipzig

Date: Thursday, March 7, 2024

Time: 2:00 PM

Location: 125 Hayes-Healy Bldg

Zoom URL: NA

Lecture Title:

Using Cluster Algebras to Compute Restriction of Anosov Subgroups of *Sp(2n,R)*

Abstract

Anosov representations are an important class of representations generalizing holonomy representations of hyperbolic surfaces. Given a simple Lie group G, one can ask what hyperbolic groups have Anosov representations into G. The boundary of the representation lands in the flag manifold associated to G and studying the topology of this manifold gives conditions on possible representations. We will use the cluster structure on the space of transverse triples of flags to compute the topology of these spaces. When $G = SP(2n,R)$ this is sufficient to classify all Borel Anosov representations.

Zach Greenberg - Max Planck Institute Leipzig