FELIX KLEIN SEMINAR
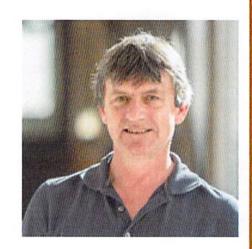
Speaker: Sergei Starchenko
University of Notre Dame

Date: Thursday, February 21, 2019
Time: 2:00 PM
Location: 258 Hurley Hall

Lecture Title:

O-minimal flows on compact nilmanifolds

Abstract

Let G be a real algebraic unipotent group, $\Lambda < G$ a lattice, $M = G/\Lambda$ and $\pi : G \to M$ the quotient map. In this talk we consider the topological closure $\mathrm{cl}(\pi(X))$ for a $X \subseteq G$ definable in some o-minimal expansion of the real field, and describe it in terms of images of definable families of real algebraic subgroups of G. We also discuss C-uniformity for distributions given by definable functions $f : \mathbb{R} \to G$. This is joint work with Y. Peterzil.