

“Every phenomenon in representation theory seems to have a beautiful geometric explanation.”

– Jeff Lagarias

The Trivial Notions Seminar
Proudly Announces

Geometric representation theory of $SL_2(\mathbb{R})$

A talk by
Justin Campbell

Abstract

The irreducible representations of $SL_2(\mathbb{R})$ were first classified rigorously by Bargmann in 1947. In this talk I will explain the Beilinson-Bernstein classification, which came much later and uses the theory of algebraic \mathcal{D} -modules. The latter approach is pleasantly geometrical and has the advantage of applying to all semisimple Lie groups with finite center. If time permits I will also discuss the Matsuki correspondence and some results due to Schmid on the geometric construction of representations.

Wednesday February 25th, at 1:30 pm
Science Center 112