JULIA GORDON, University of British Columbia

Harish-Chandra characters, orbital integrals, and motivic integration

I will describe a rather explicit parameter space for a class of Fourier transforms of orbital integrals in a p-adic Lie algebra. This allows to show that the values of Harish-Chandra characters of a class of supercuspidal representations of p-adic classical groups are controlled by a finite number of geometric objects defined over $\mathbb{Q}$.

This is joint work with Clifton Cunningham and Loren Spice.