

1125-11-2857 **Paul D Nelson*** (paul.nelson@math.ethz.ch). *Microlocal analysis on representations and number-theoretic applications.*

I will talk about joint work with Akshay Venkatesh in which we study microlocal analysis on unitary representations of a Lie group. The motivating problem is to understand bounds for and moments of L -functions on higher-rank arithmetic groups. One interesting ingredient is an algebraic phenomenon whereby irreducible representations retain a form of irreducibility after microlocalizing. (Received September 20, 2016)