David Vogan (MIT)

Title: The orbit method for reductive groups

Abstract: More than forty years ago, the "orbit method" of Kostant and Kirillov explained how to think about unitary irreducible representations of Lie groups: as quantizations of symplectic homogeneous spaces. I'll recall briefly some of the theorems implementing the orbit method almost completely for reductive Lie groups, and what needs to be done to treat the cases remaining.