

Title: A symplectic version of the Chevalley restriction theorem for polar representations

Ronan Terpereau, Oberseminar Köln, 17.11.2015

Abstract: In this talk I will discuss about the Chevalley restriction theorem, the commuting schemes (associated with a Lie algebra, a theta-group, or a polar representation), the symplectic reduction associated with a representation of a reductive group, the symplectic singularities and their resolutions, and about the beautiful relations between all these things. This talk will be elementary with many examples and shall provide an opportunity to learn a little about invariant theory and Lie theory.