FMSP Lectures

Peter Trapa

(University of Utah)

Unitary representations of reductive Lie groups I, II, III

I: January 24 (Sat) 13:00 ～ 14:00, Room 126

II: January 25 (Sun) 12:30 ～ 13:30, Room 126

III: January 26 (Mon) 12:30 ～ 13:30, Room 128

Abstract:

Let G be a real reductive group. I will describe an algorithm to determine the unitary dual of G. More precisely, I will describe an algorithm to determine if an irreducible (g,K) module (specified in the Langlands classification) is unitary in the sense that it admits a positive definite invariant Hermitian form.

This is joint work with Jeffrey Adams, Marc van Leeuwen, and David Vogan.