NUMBER THEORY SEMINAR
Tuesday, 2.00 - 3.00 pm, MS 6118

Speaker: Erez Lapid, Hebrew University

TITLE: Classification of the generic unitary dual for classical groups over a local field.

ABSTRACT: Let G be a reductive group over a local field F of char. 0. Determining the unitary dual of $G(F)$ is a classical and difficult problem. For $G = GL_n$ this was done by Tadic (p-adic case) and Vogan (arch. case). For classical groups much less is known. Over C the classification was accomplished by Barbasch, while in general the spherical (i.e., class one) unitary dual was determined by Barbasch and Moy. We determine the part of the unitary dual which is generic, i.e. admits a Whittaker model, in terms of the Langlands parameters. The method is quite elementary. The description resembles that of Barasch and Moy. This is a joint work with G. Muic and M. Tadic.