NUMBER THEORY SEMINAR
Wednesday, Feb. 4, 1.00pm-2.00pm, MS 6943

Speaker: Erez Lapid, Hebrew University

TITLE: Explicit trace identities

ABSTRACT: The Arthur-Selberg trace formula is a major tool for proving Langlands' functoriality for automorphic representations between two groups. It often requires difficult analysis in both its geometric and spectral sides. The payoff is a character identity between representations. There are other types of trace formula, for example the relative trace formula of Jacquet. We show that when the functoriality is given explicitly, the underlying character identity can often be obtained directly from the explicit construction. Parts of this project are joint with D. Ginzburg, H. Jacquet and S. Rallis.