SPEAKER: Daniel Shankman (Purdue University)

TITLE: Local Langlands correspondence for Asai L and epsilon factors

ABSTRACT: Let E/F be a quadratic extension of p-adic fields. The local Langlands correspondence establishes a bijection between n-dimensional Frobenius semisimple representations of the Weil-Deligne group of E and smooth, irreducible representations of $GL(n, E)$. We reinterpret this bijection in the setting of the Weil restriction of scalars $Res(GL(n), E/F)$, and show that the Asai L-function and epsilon factor on the analytic side match up with the expected Artin L-function and epsilon factor on the Galois side.