

SPEAKER: Gil Moss (OSU)

TITLE: The local Langlands correspondence for $GL(n)$ in families

ABSTRACT: The local Langlands correspondence for $GL(n)$, which was proved in 2001, connects representations of the Weil group of a nonarchimedean local field, F , to admissible representations of $GL_n(F)$. In this talk we will describe recent results showing that the correspondence respects congruences modulo ℓ between objects on either side (ℓ is a prime different from the residue characteristic of F), and works more broadly for representations whose coefficient rings are Galois deformation rings.