September 28: David Kazhdan (Hebrew University), "Some examples of Hecke algebras for two-dimensional local fields." FOLLOWED BY DINNER.

Let K be a local non-archimedian field and let F = K((t)) and let G be a split semi-simple group. We study certain analogs of spherical and Iwahori Hecke algebras for representations of the group G(F) and its central extension G'. For instance our spherical Hecke algebra corresponds to the subgroup G(A) of G(F) where A is the subring O((t)) where O is the ring of integers of K. It turns out that for generic level this algebra is trivial; however, it turns out to be quite large on the critical level. On the other hand the corresponding Iwahori-Hecke algebra has the same size for any level.