

GALOIS REPRESENTATIONS AND AUTOMORPHIC FORMS SEMINAR

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A Satake Isomorphism mod.p

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Let F be a locally compact non-Archimedean field, p its residue characteristic and G a connected reductive algebraic group over F . The classical Satake isomorphism describes the Hecke algebra (over the field of complex numbers) of double classes in G with respect to a special maximal compact subgroup K of G . In our setting K is a slightly smaller special parahoric subgroup, we introduce an absolutely irreducible smooth representation of K on a vector field V over a field of characteristic p , and we get a description of an analogous Hecke algebra with respect to V . We thus generalize work of F. Herzig treating the case of unramified groups G .

But in our general situation the Hecke algebra can be non-commutative. (This is joint work with M.-F. Vignéras.)

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Video: <http://video.ias.edu/galois/henniart>

terms:

- [Galois Representations and Automorphic Forms](#)