

Title: Hecke operators for groups over 2-dimensional fields.

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Abstract: If G is a reductive group over a one-dimensional field $F = \mathbb{F}_q((t))$ one can define the convolution \star on the space \mathcal{H} of two-sided $G(\mathcal{O})$ -invariant \mathbb{C} -valued functions on $G(F)$ with compact support. Moreover the spherical Hecke algebra (\mathcal{H}, \star) is isomorphic to the Grothendick ring of finite-dimensional representations of the dual group ${}^L G$. I'll discuss a definition and a description of the Hecke algebra for two-dimensional fields.