

1112-11-609

David Goldberg and **Dani Szpruch***, dani.szpruch@gmail.com. *Plancherel measure for coverings of p -adic $SL(2, F)$.*

The Plancherel measure is a certain meromorphic function associated with a parabolic induction on a quasi-split reductive group defined over a local field. It is related to L and gamma-functions. Among other applications, one can use it to determine the reducibility points on the unitary axis. In cases where the inducing data is generic, one computes this function using the Langlands-Shahidi method exploiting the uniqueness of Whittaker model. In this talk we shall discuss the computation of the Plancherel measure in the context of coverings of p -adic $SL(2)$, although uniqueness of Whittaker model fails. We shall show that in these metaplectic cases the Plancherel measure is a product of gamma functions and deduce some irreducibility results. (Received August 11, 2015)