

Stable Discrete Series Characters at Singular Elements

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Abstract. Write Θ^E for the stable discrete series character associated with an irreducible finite-dimensional representation E of a connected real reductive group G . Let M be the centralizer of the split component of a maximal torus T , and denote by $\Phi_M(\gamma, \Theta^E)$ Arthur's extension of $|D_M^G(\gamma)|^{1/2}\Theta^E(\gamma)$ to $T(\mathbb{R})$. In this paper we give a simple explicit expression for $\Phi_M(\gamma, \Theta^E)$ when γ is elliptic in G . We do not assume γ is regular.

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