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On Certain $Sp$-distinguished principal series representations of the quasi-split unitary groups. (English) Zbl 07453378

Summary: Let $U_{2n}$ denote the quasi-split unitary group over $2n$ variables with respect to a quadratic extension $E/F$ of non-archimedean local fields. We study unitarizable principal series representations of $U_{2n}$, namely the irreducible unitarizable representations of $U_{2n}$ that are obtained via parabolic induction, from the point of view of distinction by the subgroup $Sp_{2n}(F)$. After obtaining some results on distinction, we investigate the behavior of a certain class of principal series representations under the base change map which takes irreducible representations of $U_{2n}$ to those of $GL_{2n}(E)$.

MSC:
22E50 Representations of Lie and linear algebraic groups over local fields
11F70 Representation-theoretic methods; automorphic representations over local and global fields

Keywords:
distinction; principal series representations

Full Text: DOI

References:


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