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The unitary dual for metaplectic coverings of general linear groups

Suppose F is a p-adic field containing the n-th roots of unity. A metaplectic covering of $\mathrm{GL}(r, F)$ is a non-trivial n-fold covering group of $\mathrm{GL}(n, F)$. We shall provide a classification of the irreducible unitary representations of these metaplectic coverings, and discuss an application to the automorphic representations of metaplectic coverings.