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Eyal Kaplan*, kaplaney@gmail.com. *The characterization of theta-distinguished representations of $GL(n)$.*

Consider a pair of exceptional representations in the sense of Kazhdan and Patterson, of a metaplectic double cover of $GL(n)$. The tensor of these representations is a (very large) representation of $GL(n)$. We characterize its irreducible generic quotients. In the square-integrable case, these are precisely the representations whose symmetric square L-function has a pole at $s=0$. Our proof of this case involves a new globalization result. In the general case these are the representations induced from distinguished data or pairs of representations and their contragredients. The combinatorial analysis is based on a complete determination of the twisted Jacquet modules of exceptional representations. As a corollary, an exceptional representation is shown to admit a new “metaplectic Shalika model”. (Received May 18, 2015)