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Kwangho Cho and **David Goldberg*** (goldberg@math.purdue.edu), Department of Mathematics, Purdue University, 150 N. University St, West Lafayette, IN 47907. *R-groups and reducibility for inner forms of classical groups.*

We discuss the transfer of Plancherel measures for parabolic subgroups of classical groups. For an irreducible discrete series, σ , of some Levi subgroup, M of a connected reductive quasi-split group, G , the associated rank one Plancherel measures determines the Knapp-Stein R -group. This R -group, $R(\sigma)$, along with a 2-cocycle arising from standard intertwining operators, determines the commuting algebra of the induced representation, and thus gives the reducibility structure of this induced representation. On the other hand, if G' is an inner form of a quasi-split classical group G , and if M' is a Levi subgroup of G' , then M' is an inner form of a Levi subgroup M of G . If $\varphi : W'_F \rightarrow {}^L M$ is a parameter for an L -packet $\Pi_\varphi(M)$, then there is a corresponding L -packet $\Pi_\varphi(M')$. We show for every $\sigma \in \Pi_\varphi(M)$ and $\sigma' \in \Pi_\varphi(M')$, we have $R_G(\sigma) \simeq R_{G'}(\sigma')$. Thus, the reducibility structure of induced representations transfers as well. (Received September 17, 2013)