1023-22-436 **Tatiana K Howard*** (thoward@math.umd.edu), Math Dept, University of Maryland, College Park, MD 20742. *Lifting of characters on p−adic orthogonal and metaplectic groups.*

Let F be $p-$adic field. Consider a dual pair $(SO(2n+1), \widetilde{Sp}(2n))$, where $\widetilde{Sp}(2n)$ is the metaplectic cover of the symplectic group $Sp(2n)$ and $SO(2n+1)$ is the split orthogonal group over F. We show that there is a matching of Cartan subgroups between $SO(2n+1)$ and $\widetilde{Sp}(2n)$ via stabilized orbit correspondence. We say two representations of $SO(2n+1)$ and $\widetilde{Sp}(2n)$ correspond, if their characters on matching Cartan subgroups differ by a transfer factor, which is essentially character of the difference of the two halves of the oscillator representation. We show that this correspondence is compatible with parabolic induction: if two representations of Levi factors correspond, then after parabolic induction the two resulting representations also correspond. These results were motivated by the paper *Lifting of characters on orthogonal and metaplectic groups* by J. Adams who considered the case $F = \mathbb{R}$. (Received September 13, 2006)