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Dan M Barbasch* (dmb14@cornell.edu) and **Peter A Trapa**. *Unipotent representations for $Sp(p,q)$ and $O^*(n)$* . Preliminary report.

In this work, joint with P. Trapa, we establish the unitarity of the unipotent representations in the sense of Arthur or Adams-Barbasch-Vogan for the real forms $Sp(p,q)$ and $O^*(n)$. Unipotent representations are conjectured to be the building blocks of the unitary dual of a reductive real group. The techniques rely heavily on properties of the associated cycle or asymptotic support of an admissible module. (Received September 15, 2011)