Meeting: 1001, Evanston, Illinois, SS 20A, Special Session on Representation Theory of Reductive Groups

1001-22-346   **Wee Teck Gan***, Mathematics Department, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093. *Saito-Kurokawa representations of $PGSp_4$ and its inner forms.*

CAP representations were introduced by Piatetski-Shapiro, and one of the simplest examples are the Saito-Kurokawa representations of split $PGSp_4$. Piatetski-Shapiro gave a construction of these and proved exhaustion. I will discuss analogous results for arbitrary inner forms of $PGSp_4$ and point out some peculiarities regarding lifting the Saito-Kurokawa spaces between inner forms. (Received August 31, 2004)