

1100-11-105

Ameya Pitale* (apitale@ou.edu). *CAP representations for $GL(2,D)$.*

The Saito-Kurokawa liftings are examples of Siegel modular forms obtained from elliptic modular forms and constitute the first counter-examples to the generalized Ramanujan conjecture. In representation theoretic terms, they give rise to CAP representations for $GSp(4)$. We present an analogous lifting from Maass forms to automorphic forms on 5 dimensional hyperbolic space. These give rise to cuspidal representations of $GL(2,D)$ where D is a definite quaternion algebra, that are CAP representations and violate the generalized Ramanujan conjecture. This is joint work with Masanori Muto and Hiro-aki Narita. (Received February 03, 2014)