

Meeting: 1003, Atlanta, Georgia, SS 23A, AMS Special Session on Representations of Lie Algebras, I

1003-22-686 **H He*** (hhe@gsu.edu), Room 768, 30 Pryor St, Atlanta, GA 30303. *Quantum Induction.*

Let E_n be the Harish-Chandra module of $o(p, q)$ associated with the nilpotent orbit $[1^{p+q-2n}, 2^n]$, studied by Zhu-Huang and Huang-Li. Let $o(p_1, q_1) \times o(p - p_1, q - q_1)$ be the subgroup block-diagonally embedded in $o(p, q)$. Consider the restriction of E_n to $o(p_1, q_1) \times o(p - p_1, q - q_1)$. In this talk, we will show that this restriction induces a correspondence between quasi-simple $o(p_1, q_1)$ -modules and quasi-simple $o(p - p_1, q - q_1)$ -modules. For certain n, p_1, q_1 , our correspondence coincides with the parabolic induction. (Received September 27, 2004)