

1108-22-587

Francisco Franco Munoz* (francisco.munoz@yale.edu), New Haven, CT 06511. *Nilpotent orbits for classical groups and classification problems.*

I'll discuss in detail the combinatorics of the poset of nilpotent orbits for the group $Sp(p, q)$ and explain how this allows us to give a classification of associated varieties of certain generalized Harish-Chandra modules, as part of a program of Penkov and Zuckerman. I'll end with a similar classification for other classical groups like $U(p, q)$ and discuss the differences between both cases. (Received January 21, 2015)