

1106-VM-2743      **Ehssan Khanmohammadi\*** (khanmoha@math.psu.edu). *On the Positivity of Kirillov's Character Formula.*

I will review the Kirillov-Kostant philosophy of coadjoint orbits and then discuss the positivity property of Kirillov's character formula for some classes of Lie groups. Finally, I will explain how this positivity property can be used to construct a group representation from an orbit of the coadjoint representation. (Received September 16, 2014)