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*K-multiplicities of discrete series representation and quantization of coadjoint orbit.*

For real connected semi-simple Lie group, it is well-known that the discrete series representations can be geometrically realized as quantization of coadjoint orbit. In this talk, I will explain how to calculate the K-multiplicities of discrete series representation using the quantization commutes with reduction principle from symplectic geometry. (Received January 16, 2016)