1176-47-298        **Raul Quiroga-Barranco\*** (`quiroga@cimat.mx`), Cimat, Jalisco, Valenciana, 36000 Guanajuato, Guanajuato, Mexico. *Toeplitz operators and moment maps.*

Toeplitz operators with special symbols have provided interesting $C^*$-algebras. In particular, we consider such operators acting on Bergman spaces over bounded symmetric domains. For a closed subgroup $H$ of the biholomorphism group of one such domain one can consider the $H$-invariant symbols. This has provided commutative $C^*$-algebras. In this talk we will consider the moment map $\mu^H$ for a group $H$ like this and show that in some cases the symbols depending on $\mu^H$ provide commuting Toeplitz operators, that thus generate commutative $C^*$-algebras. (Received January 25, 2022)