

## Chris Woodward: Quantum K-theory of geometric invariant theory quotients

(Work in progress with E. Gonzalez) Given an action of a complex reductive group  $G$  on a smooth polarized projective variety  $X$ , there is a canonical "quantum Kirwan" map from the equivariant quantum K-theory  $QK_G(X)$  to the quantum K-theory of the GIT quotient  $QK(X // G)$ . As a sample computation, I will discuss a presentation for the quantum K-theory of a smooth toric Deligne-Mumford stack with projective coarse moduli space, at a canonical bulk deformation.