

BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

## QUANTUM KIRWAN FOR QUANTUM K-THEORY

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March 30 2016, 4:00 – 5:00pm  
Math/Computer Science, Room B19  
111 Cummington Street, Boston

Tea: 3:45pm in Room 144

**Abstract:** We extend, under certain assumptions, the definition of Kirwan map to quantum  $K$ -theory. This is a map from the equivariant quantum  $K$ -theory of a polarised  $G$ -variety (Hamiltonian manifold) to the quantum  $K$ -theory of the geometric invariant theory (symplectic) quotient. As an application we give a presentation of the quantum  $K$ -theory of projective spaces, and Grassmannians. This is joint work with C. Woodward.

See <http://math.bu.edu/research/geom/seminar.html> or contact Siu Cheong Lau [lau@math.bu.edu](mailto:lau@math.bu.edu) for more information.