

Geometry and Algebraic Geometry — Seminar —

THE QUANTUM MCKAY CORRESPONDENCE

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Abstract

Let G be a finite subgroup of $SU(2)$ or $SO(3)$. The classical McKay correspondence describes the cohomology of the resolution of the orbifold \mathbb{C}^2/G or \mathbb{C}^3/G in terms of the representation theory of G . We give a quantum version of this. We describe the quantum cohomology (and, more generally, all the Gromov-Witten invariants) of the resolution in terms of the ADE root system associated to G .

Wednesday, April 18

4:00 p.m.

Room 383-N

<http://math.stanford.edu/ag/s0607/>