

The Oliver Club

www.math.cornell.edu/~oliver/

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Finite-Dimensional Representations Over Quantizations of Symplectic Resolutions

A basic problem in representation theory is — given a group or an algebra — to study its finite-dimensional irreducible representations. The first question is how many there are. I will address this question for associative algebras that are quantizations of algebraic varieties admitting symplectic resolutions. These quantizations include universal enveloping algebras of semisimple Lie algebras, as well as W -algebras and symplectic reflection algebras. The counting problem is part of a more general program due to Bezrukavnikov and Okounkov relating the representation theory to quantum cohomology. I will consider the case of quotient singularities and will make the exposition non-technical.



Thursday, February 20, 2014
at 4:00 PM in 532 Malott Hall

Refreshments will be served at 3:30 PM in the Mathematics Department lounge (532 Malott Hall).