

Queen's Algebraic Geometry — Seminar —

GLOBAL WEYL MODULES FOR EQUIVARIANT MAP ALGEBRAS

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Abstract

A family of modules called global Weyl modules were defined by Chari and many others over algebras of the form $\mathfrak{g} \otimes A$, where \mathfrak{g} is a simple finite-dimensional complex Lie algebra and A is a commutative associative algebra with unity. In collaboration with Fourier and Senesi, global Weyl modules were defined and studied for the first time for loop algebras which have been twisted by a graph automorphism of the Dynkin diagram. This talk, which presents joint work with Fourier and Savage, focuses on the generalization of these modules to the setting of equivariant map algebras: the fixed points $(\mathfrak{g} \otimes A)^\Gamma$, where Γ is a finite group acting on \mathfrak{g} and A by automorphisms.

Monday 5 November 2012
16:30 – 17:30
319 Jeffery Hall