

Algebra/Topology Seminar

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BERNSTEIN-SATO POLYNOMIALS FOR SEMI-INVARIANTS OF QUIVERS

Thursday, October 23, 2014
1:15 p.m. in ES-143

ABSTRACT. The Bernstein-Sato polynomial is a numerical invariant that has applications to singularity theory, monodromy theory, etc. In this talk I will present a technique for the computation of Bernstein-Sato polynomials in an equivariant setting. After giving a quick background on Bernstein-Sato polynomials, prehomogeneous vector spaces, and semi-invariants of quivers, I will describe by examples the calculation of the Bernstein-Sato polynomials for quivers of Dynkin and extended Dynkin type. In particular, these computations reveal information about the geometry of some orbit closures.