
KENT VASHAW, Massachusetts Institute of Technology

On the decomposition of tensor products of monomial modules for finite 2-groups

Dave Benson conjectured recently that a tensor power $V^{\otimes n}$ of an odd-dimensional indecomposable representation for a finite 2-group G has a unique odd-dimensional indecomposable summand, and that the function sending n to the dimension of this summand is quasi-polynomial. We explore the analogous conjecture for graded representations of a related finite group scheme, and give some of first nontrivial verifications of this conjecture. This project is joint with George Cao.