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Combinatorial and Homological Properties of Polynomial Functors

Abstract for the Combinatorics and Number Theory and Algebra Seminars 2001 February 6

We will discuss the structure and properties of polynomial functors (such as the k -th symmetric or exterior power functors) in a characteristic-free setting. An interesting application of this theory is the proof of a conjecture of Buchsbaum and Eisenbud on the structure of finite free resolutions of modules over commutative rings. This is joint work with Jerzy Weyman.

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