

K -polynomials of multiplicity-free varieties

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In this talk, we will describe the twisted K -polynomial of multiplicity-free varieties in a multiprojective setting. More precisely, for multiplicity-free varieties, we will show that the support of the twisted K -polynomial is a generalized polymatroid. As an application, we will settle a conjecture of Monical, Tokcan and Yong regarding Grothendieck polynomials for the case of zero-one Schubert polynomials. This is joint work with Castillo, Mohammadi and Montaña.