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The Weak Lefschetz property and the number of generators of equigenerated monomial ideals

For a polynomial ring R with standard grading over a field k , we say a graded Artinian quotient algebra R/I has the weak Lefschetz property (WLP) if multiplication by a general linear form has maximal rank in every degree. Over a field k of characteristic zero, I will discuss sharp bounds on the number of generators of an equigenerated monomial ideal I for which R/I satisfies the WLP. This is joint work with Samuel Lundqvist.