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Spanning Lattice Polytopes and the Uniform Position Principle

A lattice polytope is called spanning if its lattice points affinely span the ambient lattice. This property can be translated to a natural algebraic property of the Ehrhard ring of the polytope. In this talk, I will present recent joint work with Lukas Katthän and Benjamin Nill where we generalize the Uniform Position Principle due to Harris to obtain new inequalities between the coefficients of the h^* -polynomial of a spanning lattice polytope. These inequalities generalize and unify inequalities by Stanley and Hibi.