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Symbolic Powers of Monomial Ideals

Central to many problems in commutative algebra is the obstacle that regular and symbolic powers of homogeneous ideals are not the same. Much work has gone into comparing these powers. In particular, conjectures of Harbourne and Huneke which relate symbolic and regular powers of ideals of fat points in projective space have gained much attention. In this talk we will explore these conjectures for monomial ideals. This is joint work with Tài Hà.