SHARON ROBINS, Carnegie Mellon University

Oda's Conjecture for Smooth Projective Toric Varieties of Lower Picard Rank

Oda's conjecture predicts the surjectivity of certain multiplication maps between linear systems on smooth projective toric varieties. Equivalently, it asserts a strong integer decomposition property for Minkowski sums of pairs of lattice polytopes. A key consequence of this surjectivity is that the smooth projective toric variety associated to the smooth polytope P is projectively normal with respect to all embeddings defined by the dilations of P. In this talk, I will survey known results on when the conjecture holds and present aspects of my work on this problem for toric varieties of lower Picard rank.