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Classifying Fano Complexity-One T -Varieties via Divisorial Polytopes

The correspondence between Gorenstein Fano toric varieties and reflexive polytopes has been generalized to a correspondence between Gorenstein Fano complexity-one T -varieties and combinatorial gadgets called Fano divisorial polytopes. Motivated by the finiteness of reflexive polytopes in fixed dimension, I will discuss recent results leading towards a classification of Fano divisorial polytopes. This is joint work with Marni Mishna and Charlotte Trainor.