

1089-14-258

**Greg Blekherman\*** (greg@math.gatech.edu), **Greg Smith** and **Mauricio Velasco**. *A Tale of Three Theorems*.

I will explain and draw connections between the following three theorems: (1) Classification of varieties of minimal degree by Del Pezzo and Bertini, (2) Hilbert's theorem on nonnegative polynomials and sums of squares (3) Classification of lattice polytopes of degree 1 by Batyrev and Nill (Joint work with Greg Smith and Mauricio Velasco) (Received February 17, 2013)