## The Newton Polytope of the Implicit Equation

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## Abstract

We apply tropical geometry to study the image of a map defined by Laurent polynomials with generic coefficients. If this image is a hypersurface then our approach gives a construction of its Newton polytope. This talk should be accessible to a general mathematical audience. No knowledge of tropical geometry will be assumed, and the talk will include an introduction to this subject. This is joint work with Bernd Sturmfels and Jenia Tevelev.