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Jenia Tevelev, Bernd Sturmfels and Josephine Yu* (jyu@math.berkeley.edu). *The Newton Polytope of the Implicit Equation.*

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. (Received February 05, 2007)