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Colin Diemer* (diemer@math.miami.edu). *Secondary Stacks and Toric Hypersurface Degenerations.*

The topology of hypersurfaces in toric varieties is largely governed by the structure of triangulations of the corresponding newton polytopes. The combinatorial gadget encoding these triangulation is a by now classical polytope called the secondary polytope. I'll discuss various enhancements of this polytope which afford more refined information about toric hypersurfaces. This is part of joint work with Katzarkov and G. Kerr. (Received February 14, 2012)