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Resurgence, Waldschmidt constants and Negative Curves

The resurgence of a homogeneous ideal of points in projective plane is an invariant defined by Bocci and Harbourne in order to measure the relationship between ordinary powers and symbolic powers of the ideal. Resurgence is related to the so called Waldschmidt constant, bounding the order of vanishing of homogeneous forms throw the given points. The study of negative curves on the blow up surface turns out to be an affective tool to compute such invariants. We will present recent results regarding the Klein and Wiman configuration of lines in projective space. This is joint work with Thomas Bauer, Brian Harbourne, Jack Huizenga, Alexandra Seceleanu, and Tomasz Szemberg.