1142-13-155 Michael DiPasquale, Christopher A Francisco, Jeff Mermin* (mermin@math.okstate.edu) and Jay Schweig. Asymptotic resurgence via integral closures (the squarefree case).

Let I be a squarefree monomial ideal. The symbolic powers of I, denoted $I^{(s)}$, are a geometric analog of the regular powers which are in general larger. An important question in the study of symbolic powers is the opposite containment, that is, for which r and s do we have $I^{(s)} \subset I^r$? The statistics resurgence and asymptotic resurgence describe the ratios $\frac{r}{s}$ which guarantee this containment. We determine the asymptotic resurgence from a study of the Newton and symbolic polyhedra, and show that it is equal to the maximum of a collection of Waldschmidt-like constants. This is a special case of a more general result on asymptotic resurgence, which will be described by Michael DiPasquale in a separate talk. (Received September 01, 2018)