Annika Denkert* (annika.denkert@unl.edu). Results on the Containment Problem $I^{(m)} \subseteq I^r$. For K be a field of arbitrary characteristic and I a nontrivial homogeneous ideal in $R = K[\mathbb{P}^N]$, we can consider symbolic powers $I^{(m)}$ and ordinary powers I^r of I. We discuss what we can say of the containment $I^{(m)} \subseteq I^r$ in general, what bounds we can give in specific situations, and what computational methods are available to calculate the resurgence $\rho(I) = \sup_{m,r} \{\frac{m}{r} | I^{(m)} \nsubseteq I^r\}$ with any desired accuracy. (Received February 10, 2014)