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Brian Harbourne* (bharbour@math.unl.edu), Mathematics Department, University of Nebraska, Lincoln, NE 68588-0130. *Results on ideals of star configurations in projective space.*

We leverage results about monomial ideals to determine properties of symbolic powers of ideals of star configurations (star configurations are certain unions of linear subspaces of projective space whose ideals share a lot of properties with monomial ideals). Questions we study are: which such ideals define subschemes which are arithmetically Cohen-Macaulay, and what are the primary decompositions of powers of ideals of star configurations? This is joint work with A. V. Geramita and J. Migliore. (Received February 13, 2012)