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Kuei-Nuan Lin* (linkn@psu.edu), PA , and **Yi-Huang Shen**. *Symbolic powers and free resolutions of generalized star configurations of hypersurfaces.*

As a generalization of the ideals of star configurations of hypersurfaces, we consider the a -fold product ideal of a sequence of n -generic forms. We show that this ideal has complete intersection quotients when these forms are of the same degree and essentially linear. Then we study its symbolic powers and describe its resurgence and symbolic defect. This is joint work with Yi-Huang Shen. (Received February 09, 2021)