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Rees algebras of ideals of star configurations. Preliminary report.

Ideals of star configurations correspond to unions of complete intersection subschemes obtained by intersecting hyperplanes meeting properly in a projective space. The terminology refers to the special case of 10 points located at pairwise intersections of 5 lines in \mathbb{P}^2 , with the lines positioned to form a star. In this talk, I will discuss the algebraic properties of the Rees algebra of ideals of this kind. This is based on joint work with Ben Drabkin and Lorenzo Guerrieri, available at [arXiv:2107.12260](https://arxiv.org/abs/2107.12260) (Received September 09, 2021)