1171-13-40 **Alessandra Costantini*** (alecost@okstate.edu), **Ben Drabkin** and **Lorenzo Guerrieri**.

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. (Received August 06, 2021)