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**Kuei-Nuan Lin\*** (kueinuanlin@gmail.com) and **Yi-Huang Shen**. *Blow-up algebras of secant varieties of rational normal scrolls.*

In this talk, we are mainly concerned with the blow-up algebras of the secant varieties of balanced rational normal scrolls. We compute the Castelnuovo–Mumford regularities and  $a$ -invariants of the fiber cones. We also present the reduction numbers of the ideals defined by the secant varieties. This is joint work with Yi-Huang Shen. (Received December 19, 2021)