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**Rachel Lynn\*** (rvlynn@purdue.edu) and **Lindsey Hill**. *Complexity of the Integral Closure of Rees Algebras*. Preliminary report.

An ideal  $I$  is normal precisely when the Rees algebra  $R[It]$  is equal to its integral closure. Unfortunately, properties of the integral closure of the Rees algebra are mysterious in general. In this talk we will discuss past and recent results about the complexity of the integral closure of the Rees algebra, as well as future directions of research. (Received January 26, 2019)