

1108-17-529

Valery Lunts* (vlunts@indiana.edu), Rawles Hall 251, Bloomington, IN 47405. *Exceptional collections and rationality questions.*

We will discuss the connection between the following two properties of a smooth projective variety X : 1) X is "strongly rational" or "Tate", 2) The derived category $D(\text{coh}X)$ has a full exceptional collection. Also we will report on some recent results (joint with A. Elagin) about strong exceptional collections of line bundles on Del Pezzo surfaces. (Received January 20, 2015)