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([lsong@ku.edu](mailto:lsong@ku.edu)), Lawrence, KS 66046. *Singularities of secant varieties.*

Given a smooth projective variety  $X$  with a very ample line bundle  $L$ , the secant variety  $\Sigma$  is the closure of the union of all secant lines to  $X$  in the ambient projective space. With a result of B. Ullery on co-normal bundle, we show that in the presence of sufficient positivity of  $L$ ,  $\Sigma$  is Du Bois but not rational singular in general. (Received February 13, 2016)