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Youngsu Kim* (youngsu.kim@csusb.edu), **Lance E Miller** and **Wenbo Niu**. *The log canonical threshold of a generic link.*

Linkage is a classical topic in algebraic geometry and commutative algebra. Fix an affine space A . We say two subschemes X, Y of A are linked if their union is a complete intersection in A , and X and Y do not have a common component. Two linked subschemes share several properties in common. Linkage has been studied by various people, Artin-Nagata, Peskine-Szprio, Huneke-Ulrich, to name a few.

In 2014, Niu showed that if Y is a generic link of a variety X , then $\text{lct}(A, X) \leq \text{lct}(A', Y)$, where lct stands for log canonical threshold and A' is an extension of A . In this talk, we show that if Y is a generic link of a determinantal variety X , then X and Y have the same log canonical threshold. This is joint work with Lance E. Miller and Wenbo Niu. If time permits, we will talk about an extension of this result. (Received August 01, 2020)