

1154-13-443

Youngsu Kim* (yk009@uark.edu), Fayetteville, AR 72701, and **Lance Edward Miller** and **Wenbo Niu**. *Generic Links of Determinantal Varieties*.

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 $LCT(A, X) \leq LCT(A, Y)$, where LCT stands for log canonical threshold. 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. (Received September 04, 2019)