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Patricia Klein* (klein847@umn.edu) and **Jenna Rajchgot**. *Geometric vertex decomposition and liaison.*

Geometric vertex decomposition and liaison are two frameworks that can be used to study algebraic varieties. These approaches have been used historically by two distinct communities of mathematicians. In this talk, we will describe a connection between the two. In particular, we will see how each geometrically vertex decomposable ideal is linked by a sequence of ascending elementary G -biliaisons of height 1 to an ideal generated by indeterminates and, conversely, how every G -biliaison of a certain type gives rise to geometric vertex decomposition. As a consequence, we establish that several families of ideals are glicci, including Schubert determinantal ideals, defining ideals of varieties of complexes, and homogeneous defining ideals of lower bound cluster algebras. This talk is based on joint work with Jenna Rajchgot. (Received February 02, 2020)