

1116-14-1525 **Kristian Ranestad*** (ranestad@math.uio.no). *Tensor decompositions and cubic sections of rational surface scrolls*. Preliminary report.

The variety of multi secant spaces to a projective variety X through a point P in projective space has been studied as a variety of tensor decompositions of a symmetric tensor, when X is a d -uple Veronese variety. For the cubic reembedding X of a rational surface scroll and P general, the variety is a surface that can be interpreted as a variety of tensor decompositions. I shall report on work in progress with Nelly Villamizar and Matteo Gallet on this topic. (Received September 20, 2015)