

Frank-Olaf Schreyer: $\hat{\mathbb{A}}$ Matrix factorizations and models of curves in \mathbb{P}^4

For curves in \mathbb{P}^3 the Hilbert-Burch theorem applied with vector bundles gives methods for constructions of curves. In the talk I will explain, how matrix factorizations $\hat{\mathbb{A}}$ may serve similarly to construct a flag of a curve and a hyperurface in \mathbb{P}^4 .

I apply illustrate this technique for curve of genus $g=15$ to 20.