

Virtual resolutions of points in $\mathbb{P}^1 \times \mathbb{P}^1$

The theory of virtual resolutions was introduced by Berkesch, Erman, and Smith as a useful analogue to the theory of minimal free resolutions to study varieties in toric varieties, including multi-projective spaces. In this talk, we describe a virtual resolution for a sufficiently general set of points X in $\mathbb{P}^1 \times \mathbb{P}^1$ that only depends on $|X|$.