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Abstracts of Short Communications and Posters

Section:

4. Algebraic Geometry

1991 MS Classification: 14

Avritzer, Dan, Universidade Federal de Minas Gerais, Brasil:

The Hilbert scheme component of the intersection of two quadrics

A description of the irreducible component of the Hilbert scheme parametrizing complete intersections of two quadrics in P^n for $n \geq 3$ will be presented. The main result is that this component is isomorphic to a double blowup of the Grassmannian of pencils of quadrics in P^n. This is a generalization of [1]. Applications to enumerative geometry will be given. Some of the numbers found were later obtained by E. Getzler [2] using other methods. These results are joint work with I. Vainsencher.

References:1. D. Avritzer and I. Vainsencher, Compactifying the Space of Elliptic Quartic Curves, Complex Projective Geometry, G. Ellingsrud, C. Peskine, G. Sacchiero and S. Strømme eds., London Math. Soc. LNS, **179**, C. U. P. (1992).

2. E. Getzler, Intersection Theory on $\overline{\mathcal{M}}_{1,4}$ and Elliptic-Gromov Invariants, to appear.