

Harvard-M.I.T. Algebraic Geometry Seminar

SECANT VARIETIES, SHADOWS, AND A UNIVERSAL DIMENSION FORMULA FOR COMPLEX SIMPLE LIE ALGEBRAS

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Abstract:

The dimensions of the Cartan powers of the adjoint representation of all complex simple Lie algebras may be expressed in a two parameter formula. I will explain the formula and its connections with the projective geometry of rational homogeneous varieties. This work is part of an ongoing project with L. Manivel exploring conjectures of Vogel on the Universal Lie algebra and of Deligne on the exceptional series.

Tuesday, September 23rd
3:00 p.m.
MIT Room 4-153

<http://www-math.mit.edu/~jstarr/03fsem/>.