

Harvard-M.I.T. Algebraic Geometry Seminar

THE CHOW RING OF STABLE MAP SPACES

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I will talk about joint work with Andrei Mustata on the Chow ring of moduli spaces $\overline{M}_{0,m}(\mathbb{P}^n, d)$ of stable maps of rational curves to \mathbb{P}^n , in the cases $m = 0$ and 1 . We introduce a notion of extended Chow ring of $\overline{M}_{0,1}(\mathbb{P}^n, d)$, based on its presentation by a sequence of blow-ups along regular local embeddings. We obtain the Chow ring as a subring of invariants relative to the action of the group of symmetries S_d . The Chow ring of $\overline{M}_{0,0}(\mathbb{P}^n, d)$ can also be described via its relation to the above extended Chow ring.

Tuesday, February 1st, 2005

3:00 p.m.

MIT Room 4-163

<http://www-math.mit.edu/ags/>