

**INTERSECTION THEORY ON THE HILBERT
SCHEME OF POINTS IN THE PROJECTIVE PLANE**

MONDAY OCTOBER 23, AT 4 PM, IN CUPPLES I ROOM 6

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Abstract: In my thesis, I prove that there are algorithms to compute intersection products on the Hilbert scheme in a basis which is defined by incidence conditions with fixed lines and points. I will define this basis and describe the algorithms as well as some of the details that go into proving the results