

# Stanford Algebraic Geometry — Seminar —

## ON THE INTERSECTION THEORY OF THE MODULI SPACE OF RANK 2 BUNDLES

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### Abstract

The intersection theory of the moduli space of rank 2 bundles of odd degree on a smooth curve is completely understood by work of Thaddeus, Donaldson, Zagier, Jeffrey-Kirwan, and others. These authors confirmed formulas written down by Witten.

In this talk, we will outline a different method of calculation. First, we lift the computation to a suitable Quot scheme, and then we effectively compute the needed intersection numbers by means of equivariant localization. The method does give a little bit more: it computes more intersection products on certain Quot schemes, some old and some new.

This is joint work with Alina Marian.

Friday, October 21

3:15 p.m.

Room 383-N