

1165-14-138

Yusuf Mustopa* (yusuf.mustopa@umb.edu) and **Montserrat Teixidor i Bigas** (montserrat.teixidoribigas@tufts.edu). *Rational Curves on Moduli Spaces of Vector Bundles.*

Given that Fano varieties are rationally connected, the Hilbert schemes parametrizing their rational curves encode fundamental aspects of their geometry. Among the best-known Fano varieties is the moduli space $SU_C(r, L)$ parametrizing S -equivalence classes of semistable vector bundles on a smooth projective curve C which have rank r and determinant L . The irreducible components of each Hilbert scheme of rational curves on $SU_C(r, L)$ in the case $r = 2, c_1(L) = 1$ were previously classified by Castravet. In this talk, I will discuss joint work with Montserrat Teixidor i Bigas which addresses the case of higher rank and arbitrary determinant. (Received January 15, 2021)