

SEMINARIO

2 dicembre 2019, ore 14:30
Aula Seminari - DISMA

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ENDOMORPHISMS OF JACOBIANS OF ALGEBRAIC CURVES WITH AUTOMORPHISMS

Abstract:

Let C be a very general complex smooth projective algebraic curve endowed with a group of automorphisms G such that the quotient C/G has genus at least 3. I will show that the algebra of \mathbb{Q} -endomorphisms of the Jacobian $J(C)$ of C is naturally isomorphic to the group algebra $\mathbb{Q}G$. Time permitting, I will then explain some applications of this result to the theory of virtual linear representations of the mapping class group.

This talk is based on a joint work with Eduard Looijenga (cf. arXiv:1811.09741).