



# SEMINARIO DE ÁLGEBRA

## Curves with symmetry and virtual linear representations of the mapping class group

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**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. Then, the algebra of  $\mathbb{Q}$ -endomorphisms of the Jacobian  $J(C)$  of  $C$  is naturally isomorphic to the group algebra  $\mathbb{Q}G$ . Via Hodge theory this result has applications to the theory of virtual linear representations of the mapping class group. This talk is based on joint work with Eduard Looijenga (cf. [arXiv:1811.09741](https://arxiv.org/abs/1811.09741)).