SEMINARIO

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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 Q-endomorphisms of the Jacobian J(C) of C is naturally isomorphic to the group algebra QG. 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).