
Stable homology of the IA-automorphism groups of free groups

Mai Katada^{*1}

¹Kyushu University – Japon

Résumé

The IA-automorphism group IA_n of the free group F_n is a normal subgroup of the automorphism group of F_n , which is an analogue of the Torelli groups of surfaces. The homology of IA_n admits an action of the general linear group $GL(n, \mathbb{Z})$. We study the $GL(n, \mathbb{Z})$ -representation structure of the homology of IA_n for sufficiently large n . In this talk, we determine the $GL(n, \mathbb{Z})$ -representation structure of the Albanese homology of IA_n , which is an important quotient of the rational homology of IA_n . We also present some by-products.

^{*}Intervenant