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Stable rational homology of the IA-automorphism groups of free groups

Friday 22 September 2023 09:00 (55 minutes)

We study the quotient of the rational homology of the IA-automorphism group IA_n of the free group F_n that is obtained as the image of the map induced by the abelianization map of IA_n on homology. We call it the Albanese homology of IA_n . In this talk, we determine the third Albanese homology of IA_n in a stable range. Moreover, in higher degree, we obtain a subquotient of the Albanese homology of IA_n in a stable range, which is conjecturally equal to the entire Albanese homology of IA_n . We also consider the Albanese homology of the Torelli groups of surfaces.

Presenter: Dr KATADA, Mai (Tokyo)