

Al@Bicocca seminar

You are all welcome to the next bite of the series

“Al@Bicocca”

which is meant to give you a small taste of the
Algebra at Bicocca and beyond

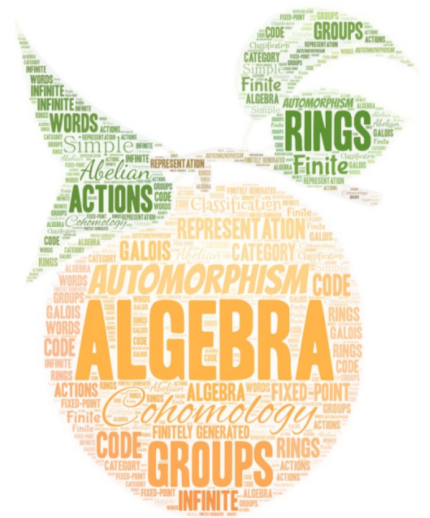
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Profinite properties of ℓ^2 -invariants

Abstract: Although higher ℓ^2 -Betti numbers $b_n^{(2)}, n \geq 2$ are in general not profinite invariants, some interesting information on the ℓ^2 -cohomology of S -arithmetic groups still seems to be preserved under profinite commensurability. This leads us to prove a stability result for another ℓ^2 -invariant strictly related to the ℓ^2 -Betti numbers: the sign of the Euler characteristic, which indeed can be seen as the alternating sum of such $b_n^{(2)}$.

In this talk we will introduce the basics and motivations for being interested in Profinite rigidity and then we will discuss the key steps needed to prove our result for S -arithmetic groups in terms of local-global principles in the setting of Galois cohomology.

All of this is joint work with Holger Kammeyer.



12 December 2024

11.00 (UTC+1)

Online venue: WebEx

University of Milano-Bicocca

Via R. Cozzi 55

Milano (IT)

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