Polylogarithms, homology of linear groups, and Steinberg modules



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The Rognes rank spectral sequence and Goncharov program via E_{∞} -homology.

Thursday 12 June 2025 18:00 (50 minutes)

In this talk I will explain ongoing work with Kupers and Rudenko on a new approach to understanding the Rognes rank spectral sequence and the Goncharov program using the E_{∞} -homology of the E_{∞} -algebra associated to symmetric monoidal category of vector spaces over a field. One of the new ideas is to compute the Koszul dual Lie cobracket on the indecompodables of this algebra and use it to understand the d^1 differential of the Rognes rank spectral sequence. I will also mention some applications of these tools to weight 3 polylogarithms and algebraic K theory, and some open conjectures.

Presenter: SIERRA, Ismael