

An overview of isotropic motives

Wednesday, 25 September 2024 15:00 (1 hour)

The theory of motives, envisioned by Grothendieck and further developed by Voevodsky, provides a systematic approach to the study of different cohomology theories for algebraic varieties. In this talk, I will give a brief overview of the theory of motives, with a particular focus on isotropic motives. Roughly speaking, isotropic motivic categories are obtained from their classical counterparts by “annihilating” the motives of all anisotropic varieties. The aim of the talk is to present the main features of isotropic motives, including their relation to algebraic cycles modulo numerical equivalence, and to well known algebraic objects coming from classical homotopy theory.

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