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An integral version of the Grothendieck-Teichmüller group

Tuesday 30 August 2022 10:10 (50 minutes)

I will explain an integral generalization of rational homotopy theory based on binomial commutative rings. I will then explain the construction of a derived binomial algebraic group over the integers which specializes to the pro-algebraic Grothendieck-Teichmüller group as well as the pro-p version for all prime p. I will finally describe the conjectural relationship between this group and the Tannakian Galois group of Nori motives with integral coefficients.

Presenter: HOREL, Geoffroy (Paris)