

25 января (вторник), 17:15, Zoom 675-315-555, семинар "Алгебраические группы", Cameron Ruether (University of Ottawa), "Cohomological Invariants of Half-Spin Groups".

Анонс

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Cohomological invariants of a linear algebraic group are a tool introduced by Serre aimed at studying the first Galois cohomology set of the group. So called degree three invariants form a group, and the structure of this group is known in many, but not all, cases. In particular, linear algebraic groups which are neither simply connected nor adjoint have received less attention. We will discuss a recent computation of these invariant for one such group, the split half-spin group. The computation exploits the functoriality of cohomological invariants by using newly constructed homomorphisms into half-spin. Furthermore, one can ask the same question about non-split half-spin groups. We will discuss how many of the ingredients for the split computation can be adapted to the non-split setting using Galois descent. In particular, we show how Galois descent is compatible with the new morphisms used in the split case.