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*The gamma-filtration on projective homogeneous spaces*

Let  $X$  be a projective homogeneous variety of a simple linear algebraic group over an arbitrary field, e.g. a flag variety, an anisotropic quadric, a Severi-Brauer variety. In the present talk we discuss recent results on the torsion of the subsequent quotients of the Grothendieck gamma-filtration on  $X$  and its applications to the theory of torsors and cohomological invariants of linear algebraic groups.