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On genus of spinor groups

Two simple algebraic groups defined over a base field K are in the same genus if they have the same isomorphism classes of maximal K -tori. The question if a genus of an absolutely simple algebraic group is finite arises in geometry. While there are definitive results over number fields (which we will briefly review), the theory of characterization of absolutely simple algebraic groups having the same isomorphism classes of maximal tori over general fields is only emerging. In the talk we will consider the case of spinor K -groups where K is the function field of a curve defined over a number field. Joint work with A. Rapinchuk and I. Rapinchuk.