

Structure of linear algebraic groups

Theorem 1. Let G be a linear algebraic group of dimension 1 over an algebraically closed field \mathbb{k} . Then G is isomorphic to either \mathbb{G}_m or \mathbb{G}_a .

Lemma 2. Let G be a linear algebraic group over an algebraically closed field \mathbb{k} . Then G has a one-dimensional algebraic subgroup.

Appendix

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