

Alvaro Liendo (Chile / Grenoble) Ga-actions on affine T-varieties

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Let $X = \text{spec } A$ be a normal affine variety endowed with an effective action of a torus T of dimension n . To introduce a G -action on X is equivalent to fix a locally nilpotent derivation D on the $\mathbb{Z}$ -graded algebra A . In this talk we show some classification result of pairs (A, D) in the case where D is homogeneous and with special emphasis in the case where the general orbits of the G -action are contained in the orbit closures of the T -action. In particular, we give the birational characterization of normal affine varieties with trivial Makar-Limanov invariant.

Kontakt:

Humboldt-Universität zu Berlin . Institut für Mathematik
SFB 647 . Unter den Linden 6 . 10099 Berlin
Tel. +49 30 2093 1804 . Fax. +49 30 2093 2727
sfb647@math.hu-berlin.de