

Separating invariants for the basic G_a -actions

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We explicitly construct a finite set of separating invariants for the basic G_a -actions. These are the finite dimensional indecomposable rational linear representations of the additive group G_a of a field of characteristic zero, and their invariants are the kernel of the Weitzenböck derivation $D_n = x_0 \frac{\partial}{\partial x_1} + \dots + x_{n-1} \frac{\partial}{\partial x_n}$.

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