Representations of non affine groups and Hopf sheaves

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Resumo

The study of affine group schemes over an algebraically closed field, its representations and basic structure has been largely studied and the main problems appearing in this context have been solved. In particular it has been established a covariant equivalence between the category of group schemes and Hopf algebras. We consider the representations and structure of a triple q : G —> A for A an abelian variety, G a scheme and q an affine morphism of schemes all defined over an algebraically closed field k. In the case that A=Spec(k) we are in the classical situation. We concentrate in the generalization of the covariante equivalence just mentioned to this general situation where the role of Hopf algebras is played by Hopf sheaves.

*nota de rodapé