

Abstract isomorphisms of isotropic root graded groups over rings.

Pavel Gvozdevsky

In the recent preprint by author it was proved that under certain conditions, an abstract isomorphism between the groups of points of isotropic absolutely simple adjoint group schemes over rings must arise from a group-scheme isomorphism.

In this talk we give the precise statement of the theorem, give examples of groups that satisfy the assumptions, and discuss some application of this result for the model theory of algebraic groups.

Pavel Gvozdevsky
Department of Mathematics
Bar-Ilan University
Ramat Gan, Israel
e-mail: gvozdevskiy96@gmail.com