

1078-16-69

Martin Lorenz* (lorenz@temple.edu). *Torus actions on affine PI-algebras.*

Let R be an algebra over an algebraically closed field k and let G be an affine algebraic k -group that acts rationally by k -algebra automorphisms on R . I will discuss the question as to when R has only finitely many G -prime ideals. The main focus will be on the case where R is an affine PI-algebra and G is an algebraic torus. (Received November 18, 2011)