

## **Equivariant vector bundles on affine $G$ -toric schemes**

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The Bass-Quillen conjecture states that every vector bundle over  $\mathbb{A}_R^n$  is extended from  $\mathrm{Spec}(R)$  for a regular noetherian ring  $R$ . Lindel proved that this conjecture has an affirmative solution when  $R$  is essentially of finite type over a field. We will discuss an equivariant version of this conjecture for the action of a diagonalizable group scheme. We prove a general result about  $G$ -equivariant vector bundles on affine  $G$ -toric schemes and derive the equivariant analog of the Bass-Quillen conjecture as a corollary for various cases of  $R$ . This talk is based on joint work with Amalendu Krishna.