

Endomorphism rings and Baer - Kaplansky classes

Gabriella D'Este

University of Milano

A Baer - Kaplansky class \mathcal{C} is a class of modules whose modules are uniquely determined by their endomorphism rings. We will show that some of these classes, containing either one or two or infinitely many indecomposable modules, have the additional property that their modules are uniquely determined by the number of indecomposable summands and by the structure of their endomorphism rings as abelian groups or as vector spaces. Almost all the results presented in the talk are contained in the following papers:

[1] D'Este G. - Keskin Tutuncu D. , Baer - Kaplansky theorem for modules over non commutative algebras, To appear in Kyungpook Mathematical Journal.

[2] D'Este G. - Keskin Tutuncu D. - Tribak R. , Baer - Kaplansky classes determined by numerical invariants, submitted.