

Tree modules as counterparts of right almost split morphisms

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Abstract: We know that every finitely presented module with local endomorphism ring is the codomain of a (minimal) right almost split morphism. This was proved by M. Auslander for modules over an arbitrary ring, and it was recently generalized by H. Krause to the setting of finitely accessible additive categories.

I will talk about the recent result which shows that the converse holds as well, i.e. in a finitely accessible additive category, an object has to be finitely presented with local endomorphism ring provided that it is the codomain of a right almost split morphism.