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Research Details :

Research Title : Wide Morita contexts for abelian Categories
 قرائن موريتا في الأصناف الأبيلية

Descriptipn : Wide Morita contexts" are extension~ ofMorita contexts» in abelian categories This notion was introduced by F. Castaño Iglesias and J. Gomez-Tortecilla~ in Communications in Algebra, VolL 23, in 1995. There are two main branches of this extension, which are the right and left wide Morita contexts. Right wide Morita contexts deal with the extensions of Morita context, from modules over rings to abelian categories, while left wide Morita contexts can be viewed as extension of contexts of comodule~ A^{op} coalgebra~ to abelian categories. Using the tools developed in these wide Morita contexts many equivalences and dualities studied in module and comodule categories~ are now exposed to abelian categories. One thing that has drawn attention is the injectivity criterion. In the present work our aim here is to fill this gap by studying and upgrading the properties of injective Morita contexts to injective right wide Morita context~. Moreover, besides giving a review of this newly developed branch, some definitions will be modified and some known results related to equivalences of categories~ will be restructured. In particular, the tensor product of two bimodules is studied and an equivalence condition is added in the classical statement of Morita Theorem. Rational systems are studied for general rings related to Morita context. and we have used them to deduce the injectivity criterion

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