

Local nearring extensions

Obviously, the direct product of nearrings with identity is a nearring with identity. At the same time, the direct product of two arbitrary local nearrings is not a local nearring. Naturally, the question arises of defining such a product, the result of which is a local nearring.

The semidirect product of the ring R with the abelian group G , which is a nearring, was given in [1]. We generalized such product to local nearrings, i.e., local nearring extensions.

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[1] Fechete I., Fechete D., Bica A. M. Semidirect products and near rings. An. Univ. Oradea Fasc. Mat., 14 (2007), 211-219.

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