

Rickart rings and skew nearlattices

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Sussman and Subrahmayam proved in [1] and [2] that a certain kind of reduced ring (called *m-domain ring* in [2]) can be decomposed into a collection of disjoint subsets which are closed with respect to multiplication. In [3] it is shown that reduced Rickart rings and m-domain rings are the same thing. This talk is about the order structure of a reduced Rickart ring's decomposition into disjoint semigroups.

Cīrulis proved in [4] that every right normal skew nearlattice can be regarded as a structure called a *strong semilattice of semigroups*, and in [5] he shows that any reduced Rickart ring admits the structure of a right normal skew nearlattice. It turns out that this strong semilattice of semigroups arises from the semigroup decomposition of [2].

References

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