Jaroslav Guričan

Homology theory in the alternative set theory I. Algebraic preliminaries

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Abstract: The notion of free group is defined, a relatively wide collection of groups which enable infinite set summation (called commutative π-group), is introduced. Commutative π-groups are studied from the set-theoretical point of view and from the point of view of free groups. Commutativity of the operator which is a special kind of inverse limit and factorization, is proved. Tensor product is defined, commutativity of direct product (also a free group construction and tensor product) with the special kind of inverse limit is proved. Some important examples of tensor product are computed.

Keywords: alternative set theory, commutative π-group, free group, inverse system of Sd-classes and Sd-maps, prolongation, set-definable, tensor product, total homomorphism
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