Induced ternary Lie superalgebras and extension of Nambu-Poisson bracket to superspace

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Abstract:

We show that given a Lie superalgebra one can construct the 3-Lie superalgebra by means of the supertrace. Next we propose to extend the Nambu approach to superspace. We define the n-ary bracket of functions on a superspace with the help of Berezinian and prove that this bracket is Nambu-Poisson bracket.