

talk

THE SIMPLEST NON – ASSOCIATIVE GENERALIZATION OF SUPERSYMMETRY

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Non – associative generalization of supersymmetry is offered [1]. 3– and 4–points associators for supersymmetric generators are considered. On the basis of zero Jacobiators for three supersymmetric generators we have obtained the simplest form of 3–point associators. The connection between 3– and 4–point associators are considered. On the basis of this connection 4–point associators is obtained. The Jacobiators for the product of four supersymmetric generators are calculated. We discuss possible physical sense of numerical coefficients presented on the RHS of associators. The possible connection between supersymmetry, hidden variables and non – associativity is discussed.

REFERENCES

- [1] V. Dzhunushaliev, “The simplest non-associative generalization of supersymmetry,” arXiv:1509.04614 [hep-th].