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Research note

Extension of algebraic hyperstructures theory to the elementary particle physics and nuclear physics

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Abstract

Algebraic hyperstructures theory is a natural extension of the classical algebraic structures. Because of importance and new viewpoints in this theory, we try to apply this theory to the elementary particle physics and nuclear physics presenting the definitions and the concepts of the algebraic hyperstructures. In this work we intend to use this new branch of mathematics to describe the interaction between leptons in the elementary particle physics and the fusion processes in the nuclear physics.

Keywords: algebraic, hyperstructures, hyperaction, lepton, fusion

For full article, refer to the Persian section