

# Nonassociativity in Physics

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## **Abstract**

One of the most important problems in modern physics is the problem of quantization of strongly interacting fields (quantum chromodynamics, gravity). The problem is connected with the fact that the algebra of quantum fields operators is still unknown. In the talk the possibility of building of an algebras of quantum field operators on the basis of a nonassociative algebra is considered. To do this the generalization of octonions numbers to a nonassociative algebra is considered. The associators for the product of three operators is offered. The self-consistency of such defenition is considered. The physical applications of the proposed algebra is discussed. The open questions are listed.