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Nonassociativity in VOA theory and finite group theory

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Abstract: We discuss some examples of nonassociative algebras which occur in VOA (vertex operator algebra) theory and finite group theory. Methods of VOA theory and finite group theory provide a lot of nonassociative algebras to study. Ideas from nonassociative algebra theory could be useful to group theorists and VOA theorists.

Keywords: nonassociative algebra, nonassociative commutative algebra, groups of Lie type, sporadic groups, vertex operator algebras, lattice type vertex operator algebras, axioms, (B, N) -pair, monster, $2A$ -involutions, Jordan algebra, pairwise orthogonal idempotents, E_8 , E_6 , polynomial identity

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