СЕМИНАР

"АЛГЕБРА И ЛОГИКА"

Драги колеги, Следващото заседание на семинара ще се проведе на 17 ноември 2017 г. (петък) от 13:00 часа в зала 578 на ИМИ – БАН. Доклад на тема

n-Tuple semigroups

ще изнесе

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Поканват се всички желаещи.

От секция "Алгебра и логика" на ИМИ – БАН http://www.math.bas.bg/algebra/seminarAiL/

Abstract

An n-tuple semigroup is an algebraic system consisting of a set with n binary associative operations satisfying certain equations. n-Tuple semigroups play a prominent role in the theory of non-associative rings and algebras. They are a generalization of semigroups and have relationships with such algebraic structures as interassociative semigroups, restrictive bisemigroups, doppelsemigroups and trioids.

Examples of *n*-tuple semigroups are given and the independence of axioms of an *n*-tuple semigroup is established. Elements of the variety theory of *n*-tuple semigroups are outlined. *n*-Tuple semigroups which are free in the variety of *n*-tuple semigroups are constructed and the least congruences on free *n*-tuple semigroups are investigated. The free product of *n*-tuple semigroups is presented and its structure is described. Automorphism groups of constructed free algebras are characterized.