

СЕКЦИЯ

„АЛГЕБРА И ЛОГИКА”

Драги колеги,

На 16 юни 2023 г. (петък) от 13:00 часа ще се проведе дистанционно заседание на семинара по „Алгебра и логика”.

Доклад на тема

Polynomial identities in Novikov algebras

ще изнесе

Nurlan Ismailov (Astana IT University and Suleyman Demirel University, Kaskelen, Kazakhstan).

Joint work with V. Dotsenko and U. Umirbaev.

Семинарът ще се проведе посредством платформата **Zoom** и всеки желаещ може да се присъедини като последва линка, зададен на страницата на семинара.

От секция „Алгебра и логика” на ИМИ – БАН

<http://www.math.bas.bg/algebra/seminarAiL/>

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Abstract:

The talk is devoted to Novikov algebras satisfying nontrivial identities. We show that a Novikov algebra over a field of zero characteristic that satisfies a nontrivial identity satisfies some unexpected “universal” identities, in particular, right associator nilpotence, and right nilpotence of the commutator ideal. This, in particular, implies that a Novikov algebra over a field of zero characteristic satisfies a nontrivial identity if and only if it is Lie-solvable. We also establish that any system of identities of Novikov algebras over a field of zero characteristic follows from finitely many of them, and that the same holds over any field for

multilinear Novikov identities. Some analogous simpler statements are also proved for commutative differential algebras.