

СЕМИНАР

„АЛГЕБРА И ЛОГИКА”

Драги колеги,

Следващото заседание на семинара ще се проведе
на 8 юни 2018 г. (петък) от 13:00 часа
в зала 578 на ИМИ – БАН.

Доклад на тема

The order of hypersubstitutions for algebraic systems of type $((2);(2))$

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/>

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Abstract

Hypersubstitutions for algebraic systems [1] are mappings which send operation symbols to terms and relational symbols to formulas preserving arities (see [2]). We used it as the tool to study hyperformulas and solid model classes. In this talk, we study the order of each hypersubstitution for algebraic systems of type $((2);(2))$ i.e., the order of the cyclic subsemigroup generated by that hypersubstitution of monoid of all hypersubstitutions for algebraic systems of type $((2);(2))$. The main result is that the order is 1 or 2 or 3 or 4.

References

- [1] A. I. Mal'cev, *Algebraic Systems*, Akademie-Verlag, Berlin 1973.
- [2] D. Phusanga, *Derived Algebraic Systems*, Ph.D. Thesis, Potsdam (2013).