СЕКЦИЯ

„АЛГЕБРА И ЛОГИКА"

Драги колеги,

На 5 ноември 2021 г. (петък) от 13:00 часа ще се проведе дистанционно заседание на семинара по „Алгебра и логика". Доклад на тема

Permutation groups and permutation patterns

ще изнесе

Erkko Lehtonen (Universidade Nova de Lisboa, Portugal).

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

===

Abstract

We approach permutations from two different points of view: the algebraic one of permutation groups and the combinatorial one of permutation patterns. While these two well-established notions do not seem to have much in common, there is a perhaps surprising connection that will be explained in this talk. Namely, the class of permutations avoiding the complement of a permutation group is comprised of levels that are permutation groups.

With the help of invariant relations, we describe the permutation groups that arise in this way from pattern avoidance. Furthermore, we propose refinements to the work by Atkinson and Beals on permutation classes in which all levels are groups.

This talk is partly based on joint work with Reinhard Pöschel (Technische Universität Dresden).