Seminarium geometrów

Poniedziałek, 9.11.2015, 14:15, sala 711

Coarse property C and decomposition complexity

Greg Bell (UNC Greensboro)

Abstract: The coarse category was introduced by Roe in an effort to better study the important properties and results of the coarse-geometric approach to metric spaces. In Roe's language, the standard coarse geometry of a metric space can be phrased in terms of the so-called bounded coarse structure. Roe showed that the notion of asymptotic dimension, which was first introduced by Gromov to study finitely generated groups, can be phased entirely in terms of the language of the coarse category. In this talk, we will define coarse versions of Haver's property C and various notions of decomposition complexity that were defined by Guentner, Tessera, and Yu and also by Dranishnikov and Zarichnyi. We show that many of the properties and results enjoyed by the metric versions of these notions have direct analogs in the coarse category. We also relate these notions to a coarse version of Yu's property A.

Upper bounds in Morpion Solitaire

Andrzej Nagórko (UW)

Abstract: Morpion Solitaire is paper-and-pencil single-player game with a goal to find longest possible sequence of moves. I'll show how geometric properties of planar lattice graphs combined with linear programming imply new upper bounds for the optimal solution.