Seminarium geometrów

https://dgt.math.uni.wroc.pl/

Poniedziałek, 9.03.2026, 14:15 WS

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Bi-Helly graphs, Artin groups and the $K(\pi, 1)$ conjecture

Abstract: Bi-Helly graphs are bipartite analogs of Helly graphs first introduced by Bandelt, Dählmann and Schütte. I will discuss non-positive curvature properties of bi-Helly graphs as well as how they arise in the study of Artin groups. The focus will be on recent joint work with Munro defining canonical sequences of near-cliques in bi-Helly graphs called directed geodesics as well as recent joint work with Huang using these directed geodesics to define normal form paths in Artin complexes as part of a proof of the $K(\pi, 1)$ conjecture for certain classes of Artin groups.

Streaming via ZOOM:
Meeting ID: 677 2490 5828
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