Seminarium geometrów

Poniedziałek, 15.12.2025, 14:15 WS

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JSJ decompositions for Artin groups

Abstract: Artin groups are a family of groups generalising Braid groups, closely related to Coxeter groups. In this talk we will characterise when an Artin group splits over $\mathbb{Z}$, and see how this characterisation gives rise to a kind of maximal splitting called a JSJ decomposition. In the second half of this talk we will use this JSJ decomposition to see various applications, including partial results towards the isomorphism problem, and showing that many Artin groups have acylindrically hyperbolic automorphism groups. This talk is based on joint work with Giorgio Mangioni and Giovanni Sartori.

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