

# Seminarium geometrów

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Środa, 20.12.2017, 16:15, s. 607

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## **The asymptotic geometry of 2–dimensional Artin groups**

**Abstract:** We characterize the structure of quasi-Euclidean tilings over 2–dimensional Artin groups. As an application, we study quasi-isometric classification and rigidity of large type and triangle free Artin groups and give a characterization (in terms of the defining graphs) that when these groups satisfy a strong form of rigidity that any self-quasi-isometry of the group is uniformly close to a group automorphism. This is joint work with D. Osajda.