

Seminarium geometrów

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Quadratic Complexes

Abstract: Quadratic complexes are square complexes satisfying a certain combinatorial non-positive curvature condition. These complexes generalize 2-dimensional CAT(0) cube complexes and may be viewed as the bisimplicial analog of systolic complexes. I will define and present some properties of quadratic complexes and of groups which act on them. As time permits, I will discuss dismantlability, asphericity and other topics.