

Seminarium geometrów

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Tits alternative for the 3-dimensional tame automorphism group

Abstract: Let k be a field of characteristic 0. The tame automorphism group $\text{Tame}(k^3)$ is the group generated by the affine maps of k^3 and the maps of form $(x, y, z) \rightarrow (x, y, z + P(x, y))$. We prove the strong Tits alternative for $\text{Tame}(k^3)$, using its action on a 2-dimensional $\text{CAT}(0)$ complex. This is joint work with Stéphane Lamy.