

Seminarium geometrów

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Asymptotic Cones for conjugation invariant groups

Abstract: The asymptotic cone of a group G equipped with a conjugation invariant norm is not only a metric space, but a group as well. Thus, it is natural to ask which kind of algebraic properties this object, which captures the large scale metric patterns of G , can possess. In this talk we will consider the example of the symmetric group of finitely supported permutations of the natural numbers with conjugation invariant norm given by just that support. We will show simplicity and uniform perfectness of its asymptotic cone.