

Seminarium geometrów

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A constructive approach to Markov compacta

Abstract: A Markov compactum is the limit of an inverse sequence of finite simplicial complexes of a quite special kind. These objects are important in geometric group theory, as Gromov boundaries of hyperbolic groups, and more generally ideal boundaries of various groups can be described as Markov compacta. In contrast to existing, nonconstructive definitions, we describe a finite set of data that is sufficient to construct a wide class of Markov compacta and give an overview of the equivalence of definitions.