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Realizations of countable groups as fundamental groups of compacta

Abstract. It is an open question by Pawlikowski whether every finitely generated group can be realized as a fundamental group of a compact metric space. In this talk we prove that any countable group can be realized as the fundamental group of a compact subspace of four dimensional Euclidean space. According to theorem of Shelah such space can not be locally path connected if the group is not finitely generated. This constructions complements realization of groups in the context of compact Hausdorff spaces, that was studied by Keesling and Rudyak, and Przewdziecki.