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On noncontractible compacta with trivial homology and homotopy groups

Abstract. We shall present a construction of a noncontractible Peano continuum X which is a one-point compactification of a polyhedron but which is weakly homotopy equivalent to a point. We shall also prove that all classical homology groups (singular, Borel-Moore, Čech) and cohomology groups (singular, Čech) and all finite-dimensional Hawaiian earring groups of this space X are trivial.