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Some remarks on the homotopical dimension

Abstract. A homotopical dimension of a space X is the minimal dimension of a space homotopically equivalent to X. We can also consider a homotopical dimension in CW-category. The second definition has an algebraic characterisation given by Wall (1965). This characterisation does not hold in topological category. We can present some interesting examples obtained in Polish-Slovenian cooperation. Cannon and Conner have found a characterisation of subsets of S^2 with homotopical dimension at most 1.