

planetmath.org

Math for the people, by the people.

Betti number

Canonical name BettiNumber

Date of creation 2013-03-22 13:47:14 Last modified on 2013-03-22 13:47:14 Owner mathcam (2727) Last modified by mathcam (2727)

Numerical id 6

Author mathcam (2727)

Entry type Definition
Classification msc 55N10
Related topic homology

Related topic HomologyTopologicalSpace

Let X denote a topological space, and let $H_k(X,\mathbb{Z})$ denote the k-th homology group of X. If $H_k(X,\mathbb{Z})$ is finitely generated, then its rank is called the k-th $Betti\ number$ of X.