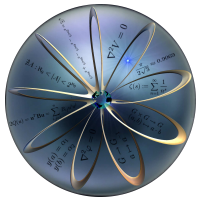

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wild

Canonical name	Wild
Date of creation	2013-03-22 16:52:54
Last modified on	2013-03-22 16:52:54
Owner	Mathprof (13753)
Last modified by	Mathprof (13753)
Numerical id	8
Author	Mathprof (13753)
Entry type	Definition
Classification	msc 55S37
Defines	tamely imbedded
Defines	triangulable

Let S be a set in $\mathbb{R}^n$ and suppose that S is triangulable. (S is *triangulable* means that when regarded as a space, it has a triangulation.)

If there is a homeomorphism $h : \mathbb{R}^n \to \mathbb{R}^n$ such that $h(S)$ is a polyhedron, we say that S is *tamely imbedded*.

If S is triangulable but no such homeomorphism exists S is said to be *wild*.

In $\mathbb{R}^2$ every 1-sphere is tamely imbedded. But in $\mathbb{R}^3$ there are wild arcs, 1-spheres and 2-spheres.