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Homotopy groups of spheres - Wikipedia
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Complex Cobordism and Stable Homotopy Groups of Spheres ...
The stable homotopy groups of spheres are notorious for their immense computational richness. Many of the tools of algebraic topology and stable homotopy theory were devised to compute more and more of the stable stems. This notably include the Adams spectral sequence, the Adams-Novikov spectral sequence.

A Survey of Computations of Homotopy Groups of Spheres and ...
According to Freudenthal's theorem, in the stable range the homotopy groups of spheres depend not on the specific dimensions of the spheres in the domain and target, but on the difference in those dimensions. With this in mind the th stable stem is := + ().

Computations in the Stable Homotopy Groups of Spheres (Mark Behrens @ MSRI)
Pictures of Stable Homotopy Groups of Spheres It is a classical theorem of Freudenthal (ca. 1940) that the homotopy group π n+i(Sn) is independent of n for n sufficiently large, namely n > i + 1. This stable value is often denoted πs i. For i = 0 this group is infinite cyclic, while for i > 0 it is a finite abelian

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9780125834315: Complex Cobordism and Stable Homotopy ...
Zhouli Xu: Computing stable homotopy groups of spheres ... Covering spaces and fundamental groups ... Insights into Mathematics 18,301 views. 46:41. Stable Homotopy Theory I, Feb 26, 2019 ...

Stable Homotopy Groups Of Spheres
Stable homotopy groups of spheres are used to describe the group Θ n of h-cobordism classes of oriented homotopy n-spheres (for n ≠ 4, this is the group of smooth structures on n-spheres, up to orientation-preserving diffeomorphism; the non-trivial elements of this group are represented by exotic spheres). More precisely, there is an injective map

Zhouli Xu: Computing stable homotopy groups of spheres
It remains the definitive reference on the stable homotopy groups of spheres. The first three chapters introduce the homotopy groups of spheres and take the reader from the classical results in the field though the computational aspects of the classical Adams spectral sequence and its modifications, which are the main tools topologists have to investigate the homotopy groups of spheres.

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Complex Cobordism and Stable Homotopy Groups of Spheres ...
A central problem in algebraic topology is the calculation of the values of the stable homotopy groups of spheres +*S. In this book, a new method for this is developed based upon the analysis of the Atiyah-Hirzebruch spectral sequence.

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Stable homotopy theory - Wikipedia
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Pictures of Stable Homotopy Groups of Spheres
The homotopy groups of a suspension spectrum Σ ∞ X \Sigma^\infty X of a pointed topological space X X are the stable homotopy groups of X X. In particular the homotopy groups of the sphere spectrum are the stable homotopy groups of spheres .

Stable Homotopy Groups of Spheres | SpringerLink
the stable homotopy groups of spheres), we classify the cobordism of immer-sions of (in general nonorientable) manifolds in codimension 1. The Hopf invariant is expressed as a characteristic number of the manifold of double points of self-intersection of an immersion of a manifold representing the given element of the stable homotopy group.

The ring of stable homotopy groups of spheres is not ...
ential structures on spheres is somehow determined by the stable homotopy groups of spheres (By the Freudenthal suspension theorem, the group …n(Sn+k) is independent of n when n is larger than k + 1, and is called the kth stable homotopy group of spheres, denoted by …st k (S 0)). Another impressive example

Stable Homotopy Groups of Spheres
Complex cobordism and stable homotopy groups of spheres, also known as the green book. The second edition is now (December, 2003) available and is part of the AMS Chelsea Series. The new cover is not green, but dark red.