Inert Maps and Connected Sums

Just saw MEMn with htey afibrations 5°-1 - 5m v5n-m 17 - M J-M-a where $H^{*}(\mathbb{Q}) \cong H^{+}(S^{m} \times S^{n-m})$ has sig has a right htpy inverse. This is reminiscent to something from cotronal htey theory. Def ' Rationalize spores and maps. A cell att achment Sr-1 t X is Y = XUen The map & is inert if (Ril) & is an opinorphism. Ex! Smin-1 + Smusn in SmxSn Whiteled

A to x in The map & is inert if Sty Das a right htpy inverse. Exi M 1-connected n-dimensional PD complex in Mn, 3 htpy cofib 5n-1 f m vsn-m v J J M

Generally, N#N is important in geantry but hard to handle in htpy theory.

Nevertheless, 't', and to obt obt

In the manifold case, if M, N are n-dim oriented closed manifolds then I htpy collibrations

$$\frac{\pi}{2} \frac{\pi}{2} \frac{\pi}$$

Then get decomp for SUM*NI

=) info on π* (J * N).

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