Milnor's famous work: Defined Pontojogia numbers

for PL-manifolds, 8-manifold with non-integral Kritzage

triangulated:

... no sawooth Hurchice. I Chyler 20 of Milnor-Hedrif

gluing two smooth 7-manifolds with boundary where the

compact

trounday is homeomorphic to a 7-ylere .: I non-defeomorphic

smooth studenes on 7-threes. Kervarie-Milnor: classification of

brocooth studenes on pheus.

How do we wally compute cohording groups?

Think whom! examples:

- unoviented

- triented

- complex

- framed: Compet menifold N, [in @V = N

dim H = N - k

Recell that cohordism groups are isomorphie to the homestops groups (coefficients) of the conerpording Thom gedum.

The most important example for developing homotopy theory or complex colordine. Those gratum: NU.

My = whim Σ^{-2k} Bu(k) t_0^k Σ^2 Bu(k) t_0^k = Bu(k) t_0^k

how we compute bomotop greats $T_{n}MU = T_{n+2k} RU(k)^{\gamma_{C}^{k}}$

Thompsohoof Ba(hil) & clampication of 1606

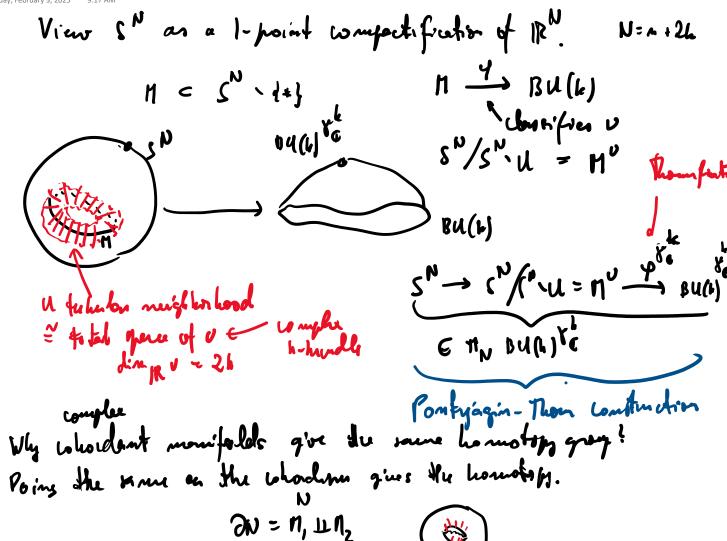
k>>> 0

(~~~)

M he a smooth comput weally stable complex a-manifold.

U is given a Hudre of a complex k. bundle.

M C IR N U = UM.



How do we go huch? N = n + 2k SN & BU(L) 8 c O-rechen II makes sense to say I to the O- Kedison. } Evening the evenged.

Milus - He the ff (Chapter 16 or 17) Then H = d'(0-notin) is a stable weally complex a-manifold. Cohordren: doing the same thing or home tops to,1) × 5 \/ (0,1) ×+

manifold with 2 h heing th 0-notion. Totally
tolon. Miluon: Topology from a differential viewpoint.

We pered Thom's Hurren: Na = The MU

Vouants: unovinted = 11, 110

MO = colon E RO(1) KIR MSO = when E RO(1) KIR

Lyenes _ Porientel = Ma M(2)

Showed = 11m S there pedrum

(Hopf's eflicare is a special case of There's Theorem for framed whorten, n = 0.)

We can certainly use framed cohordon to conjute ThS

2 copie of Möhin hand = twist

incorrectly computed The S = 0 Infact, it is also The



Funning periodice in all dientho (PP 1 pm Andrie)

The progress in discussion of homotopy theory: discussing the Thom yester. No, nio, nu.

led's begin with MIO, finishing the proof of the signature How.

Reall that if E is a gradium, Eq = whim E = E = E = E = ...

The = (The) & a (refore E by an abelian group A, their is how you construct AOD).

Eq = Ex SQ

(The MSO) & Q = The MSO = Ha (MSO; Q)

111 Thom i'manylon

Henen

Ha (BSO; Q)

dut of the (MSO; Q)

We have proved that Postyingin number oriented of inversion of for Ω oriented Ω .

For the signature theorem, we specifically said it sufficiells to five it for Cpak