6-Egnivavant complex cohordine (6 comport lie) Two versions: A complex-oriented 6- ye etum MU a defined was d Thom yectrum. Let U be complex complète 6-universe We create a May 6-presentun(DV) V m-dim. cx. 6 Dy = {m-Grafor onlespades in UDY (undary) a model for BU( (a) take the film L If V & W f.d. ^ C- upuntahins of G In-C-recto infform of NOV} Y^O(W-V) — L@(W-V) great is freeting L(by) = : MUG.

Theorem: MUG is complex-oriented and for 6 abelian compact lie, concentrated in even dimensions, (MUG); = 71, MUG = LG 1's the 6-equivariant based ving (upweel 6-represent formal group land).

However, (MUG), cohordism group! is not the n-dimensional trequirement coneflex G-equivariant smooth (uel) 1 n-manifolds M without boundary equivalent to weally

To N = + & which is a comple G-equivariant boundle physicample

The N = + & which is a comple G-equivariant boundle physicample In dimension trivial (6-fixed) dista: 6- squirmient un ouvertet whorden things 6- action on files Chordism: M, ~ M2 if I compact for 1)-d'un und G-manifold P, dr: M, MM,

TH= Tn. 101 in (in) on the order of the date of the da Øc - u

 $\Omega_{c} \longrightarrow MV_{c}$ .

What does this may mean grometrally and why are the tige at a different?

Need to weall non-equipment Thom's theorem and what fiels?

Mor he Granisainty.

To get had, we use from merality: Sk RU(m)

(month Buhm)

(month 0 - redion

f" (0-whim) = : M

## Transversality can fail equinorically

Typical example: let V he a f.d. cx. 6-upremietin.

Up - Griswantly cannol be

A small addition to the cohordism Aby:

MU X, MM X have a geometry interpretation:

(table world complex n-profile

from the himself of the X

det himself of the X

cometic way to ke S^0 -> Bu(m) r M

X. a geometic way to ke

my whordion should be a (2-guarded) homology theory

Theorem: MU = It [av | f.d. comple 6.4. V) an all V's

(Booder-Hook) Colon (Re is Ev-2der, V) To is all V's

Next time: will describer (MUG) = LG for f finishe a believe topic: Real whorders MR -> Hill, Highley Revened solution of the Kervania problem