Cohomological field theory [Witten Do's, Trieste] -top. theory of coh. type = intersection theory on mod sp. of solus of Poss -moduli space = zero locus of oo-dim vect bell M= { 4 E ( ) S(4) = 0 }/G -path int = Mathai - Quillen repr of Thom class of the op-dim vect bill -morally, Pf(R) e-Ells112 - equir coh wat G -physically we have " - action (BPS) e.om. / choice of section
15 Q-exact 13 Q-exact - Symmetries (-> Cy-equir coh - A model fits Stop Stop we called this sign so SA= J (\* (w+iB) + i ) de QA[g1- (7/2 224) + 4 ] de (7) = i ) d²z [ ½ gp dz 4p dz 4 4 g, (4zi bz 4j + 4 5 bz 4) - R 7 7 7 7 7 7 7 7 7 7 7 7 5 QA-lixed pts Dz q' = DZ q' = 0 ~> )(ol (h) Dz 4' = Dz 4' = 6 ~> Th D= 76 2 = D & Tq = 0 ~ > o bestructions

Tanzini

-with this in mind, index becomes

2(dinkh-3)-(1-g)+2 f cp\*(ci(Th))

2g

Fg = Z NB) qB

"nomber" of holy maps of day B

from Z to M

B G Q due to bdry of Mass

counts maps up to

- Gronov- Witten in