Overtations Laboury de Silva + FOOO, Seilel]: Week 3 Day 2 Went's to associal a some count # (M(P.9)/1R) is the Flow differential for CFT (Log Ls). (not most great): Say to, be one Ho! (Amyrille) at M(P.9) meta statuet: (not most goreal): Say Lo, Le overto. M(p,q) is consticully mento relative to overlature of containment speed associated to p & 9,) put after fixing Spir structures on Lo, La. the onestate lines of , of . Les House Notation: V f.d. v.s. (grade = duin)

Spece (grade = duin) M man bl ~ 7(TM) deformet he bolk.

overletes <--> translitation of 7(TM) (and RE)
restrelly) DIX->Y Fredholm opentr ~ det(D)= n(cke(D) # w)(keD), gra te file. a natural line bulk det -> Fred(X, Y). More specific to our setting, Brach Ldb [775 rection whose breatzeton (vet put) To Fredholm

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Brach Ldb [775 rection whose b Note: If Mas (a) tomosely det = > (her Du) So as overlitted of det author of M. 一刀(て、人) GIVE pe Londs, (or path Losses fro 8 As of C. TM/g)

918 8 ~ peth of between Logina subspaces fro 8 As of C. Local orestatus opertos: GF Li are goded, this policy or mysely specified up to htyx reliendparts) Takes a > a bundle pour over (D2/1+21), 202/821) = 14. or rather that the stop-like top a local from reg ship-like E = C7. TEPI-peaker on C" asymptohe near so to the pull back of \$5.00 mb with, F= 12 At A.

100	
	~ there acts on sectors cryuptation to P.
	nevely: The Whip HH, F. F. P")> What (He TO, 18 E)
	Linears of Dp.
	Det: 0 = det(Do)
	(Claim: this is independ of choices made, and an elaborate of the index colorlete which
	show IND (Dp) = De # fact At fulls to be have & Its, ~ 1 sign.)
	Thm: Lo, L2. Suppose we have fixed a Spin strictures on Lo, L2. Conserqueit Conserqueit Conserqueit Conserqueit
	[Floor, Food destron, Seitlet). 4-0 gorrelly:
•	Thm: Lo, L2. Suppose ne have fixed a Spir strettery on Lo, L2.
	Then, flere is a consticul isomorphism
	$\gamma(TM(p,q)) = 0_{2} \otimes 0_{p}$
	How does this work? Consequence of gling another lines?
	Gue 4 eM(p,g), angle therependence trumbs 4 TM & object for 1 C-R
	Of Cargle Dy # Dp honotopy De
	Make such a choix Re each. Glus theorem: induces operaphon det (Dp) @ det (Dp) = det (Dp).
	Need to check: indep- of choice of homotpy likes Spir structures?
	Can (b) choice of trulate of y Th - ale -
	Part: Spir structure on L deterrer a comment, http: class of touching on of This A-shelphan
Con	npare: The Lacking Food: Loneito. The method of Car characterity: characteristics of The Signs. Two opters: a car characteristics of the principle of the strain of the st
	Floer they w/ signs. Two opters: (a) constraints
(b)	CF* (Lo, Lz; H, J) = (D) Ox
	600 V real v.s. V is the "the space of the merketus". Space of the model you by was orestore of ox p med rel' that som varishes.
	a) (1) IK <v> (5) Sen by one of a of a of a of</v>
	vanorelation / K.Z. V. rel'a tent sun varisha.

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Orientations [ Sould, adapting original opproach by Flouritoflers]
                                      de Sim + 4000 Livi car, Soilel ]
      Notetia: V ree. spice ~> det(V) = /dist / ((dun V) m) -2) - galed rector
            M m/AU ~ A (TM) dekumet the bush. avertation of the tracker land Rx).
                                                                                 space.
       D: X -> Y Fredholm opents -> let(D) = > (open(D))* 00 > (berd).
                                                                                 (xt).
                                 five it a natural line vole det -> Fred (X, Y).
                                                          (rest. put)
       More specific to our setting,
                                s section where sold livewichin is fredholm.
                                                               Note: if M=5-1(0) is downwardy
                                            and
                                                                 cut of the
                                                  M=5-2(0).
                                                                        det = 2 (ker D.)
                                                                              = > (T, M).
        So an everthe of 4 my prophitic of det
    Ex (modules paper of dres of Lagn bornlay):
            LEX Laga. Jans.
      ~ M(x, L; J, B) := space of J-hol dries u: (D, SL) -> (x, L) a class
                                 Lis onestal. Ther, opertations of MCX, L; J, B) are induced
   Thin [de Silva, Food]. Suppose
                                   Ruk: Not the bos most general; con have I retait notablely Pin to some
       by Spin structures on L.
                                                                                badguralcless belt (x,2)
    Idea: At a given u, the land patter mother to the (thous the rase Localis, 6=0)
            Ex Frenan speaker : 14 of the form
                                  8 W 12 (D2, S, n TX, n L) -> L2 (D2)
            "TX, "TL
                                                                                       W TKODY
                                                         The one a glowy wonophism for local
 IC L one add-
                                                          Cardy Rueman operates
                                                                                      Fed (Dy ) & 123(D)
           Can degouete Du
not nevertury as a sub-space
                                              = sup = det (Dy ) as dolf Dy )
                                       ( ) is caplex oresto
                   b he explant calculate, \cong \mathbb{R}^n, \cong fiber stray given Part, with \cong L.
                               Sa the concherce the arether induced by we on L.
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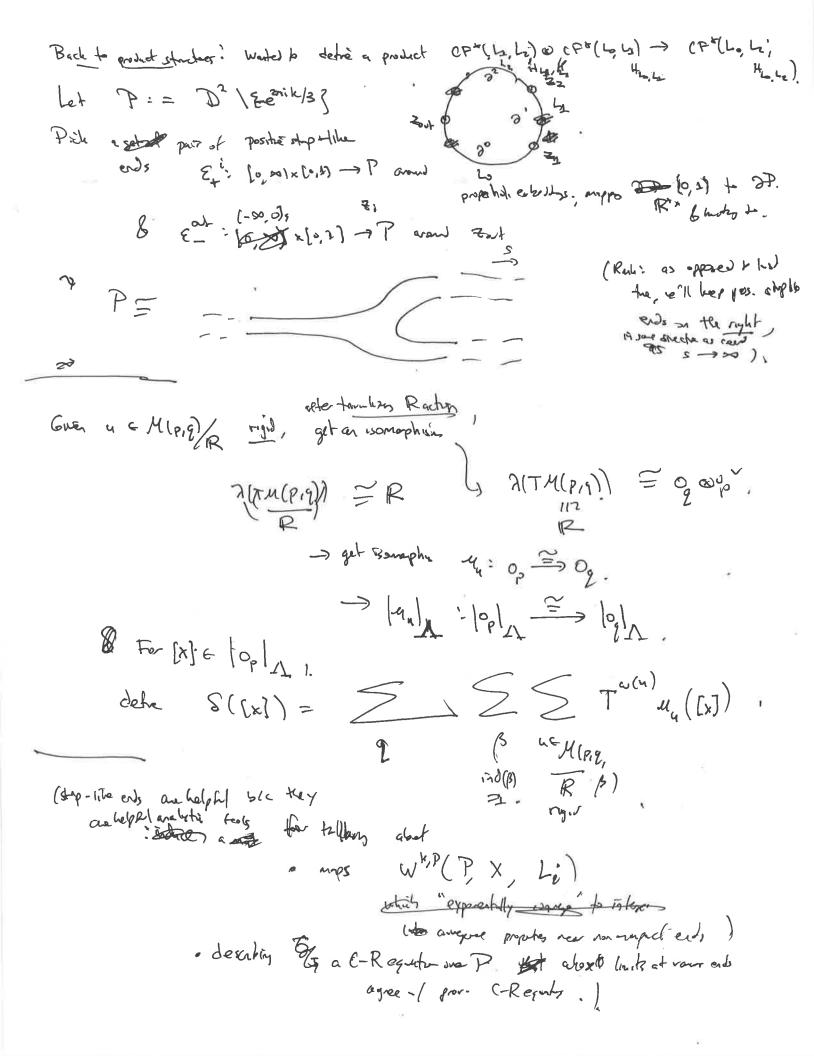
Problem: need to show independence of diores. Give The defeat paths in it is 4, #42 of openhor, show resulting energia is the race (a) gloop, show resulting family of the detilies is the family. Can do this, provided that, gues a loop of Coochy Ram genter (+es2, x=(0,52) -> (x, L)), Obstration their: Orestate: extra , to hack for o-shel. > Spr str: eated - translitation for I she! \$ 2-shel. 3 Lynnowy: let now gelo, La interecte point (or fine-1 died of mocoace is local County Rieman spector (maybe of Xx tem) rope). Q: what are asympthics? De pt- A had, sty-like < - > "path of Lagragues 7 in -1/(n)" 8H anesporta totalo > Tila (ensy to do of 6,2 Devole by Dp its hearzaha, lask have grading whether) and dato the metation live of p to be Op = = det(Dp). (aproxi, depend, on choix of put Rinke Especially by Floor's work, their moster my to kink about op-Note that and (Dp) = # thes park At hils to be through to Again eyele

francese

there is a long of the state (rough sinks to As at part). & der(03) = 1,00 / 0 -- 0 / 1 . Im 1 DR. [Seld Star, 1000, Sole !]: An Lo, La EX graded (?). wy de Silva, 2000 A Spo str. on L. bla Would De 15 oneghan Roki have betwho Rada /4 7 (TM(7,2)) = 200p. [5.7. decia hi- 6 met P. "Hendals speed 15 conquelly such reland! Richard Lo 22)

Floer they of signs? $CF^{x}(L_{0},L_{1};X,T) := \bigoplus_{x \in L_{0} \cap L_{1}} |o_{x}| \Delta$ general by doies of overhows of ox/

Now, gue road UG M(P12)/P
prev. than show that get the nonephone



· Hay/ tonu ten H: P -> ([0,1],X,R) such that Ex H = Hb, La, Ex H = Hb, Lz, etc. * almost cplx. structure 7: P-> }(X) a/ EnJs = Jho, by, ek, one-for de on P u/ 11 = (9'8) u E* x = d+ .. $\begin{cases} \lim_{s \to +\infty} \left(\frac{g^{(s)}}{s} \right)^{t} u(s,t) = p^{s} & \text{if } s \neq 0. \\ \lim_{s \to -\infty} \left(\frac{g^{(s)}}{s} \right)^{t} u(s,t) = p^{s} & \text{if } s \neq 0. \end{cases}$ & consider maps u:P -> X guies $\mathcal{M}\left(P^{at}, P_1, P_2\right) = \frac{1}{\beta \epsilon \pi_2(-)} \mathcal{M}\left(P^{at}, P_2, P_2\right). \quad \left(\left\{u - \left(\frac{1}{2}\right)^{\frac{1}{2}}\right\} = O.$ world spice Treataton the In mice case analogues to those about described: al Mis a sur marifold of dimension ded (pat) - deg (Pa) - deg (Pa). (when Li are absolutly grated)-(b) Gromor comprehens + glung: (in absence of sphere (fire Libble), M is comprehendable, If three types of cold I banday. " every grounds here purches" (c) Mis onetable (s.r. Laprov fixed Spis stretes in Li), u/ an window a(TM(portipape)) = compared oper & oper of