

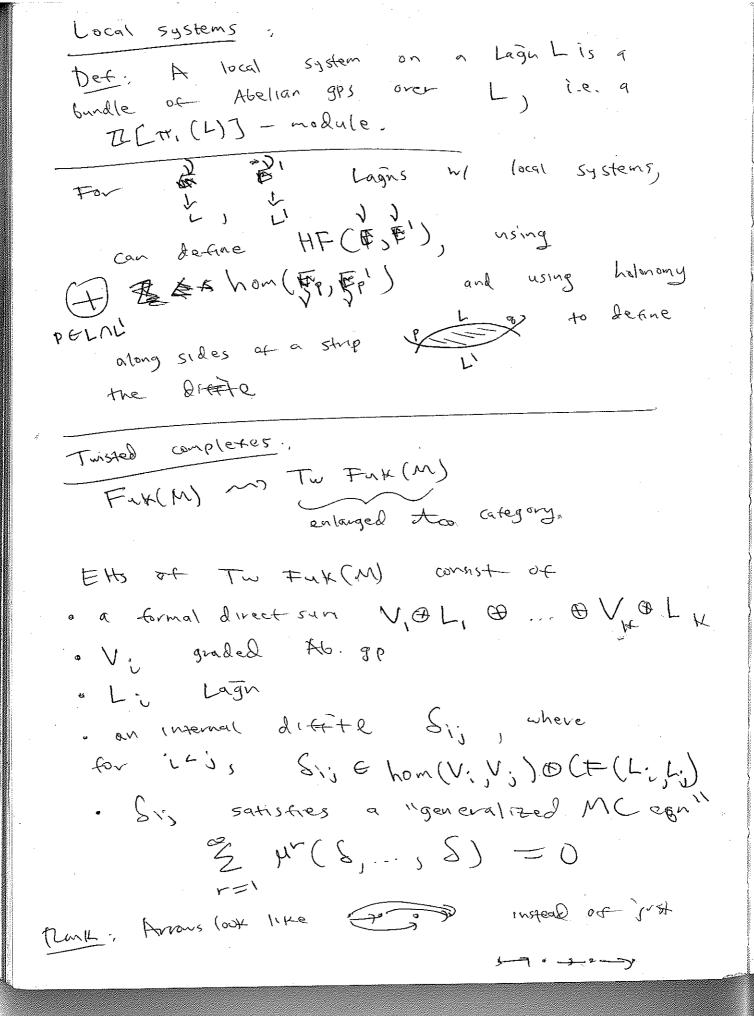
Agus results (Aborrail Smith) Wrapping Beatle "Let (Mx) be a L'ville manifold i.e. dr is symplectic and the end is of the form (throw, er N/m). · In particular, (DMN) is a Het Ar. · For L, L' CM Lagns (u) Legu 6dy it noncpct), define CW(L,L') = ZZ ZQ(L) nL'7, where Q is the Hamilton flow of a function H which looks like (er)2 on the coller. · Esuip CW with the usual Floer direth Counting holom. Disks holom. Disks

"wrapped Floer homology"

("wrapped Fakaya category"

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("to grp hinimal") PMK: For L,L' agrees of usual Floer homology. Et: For T&Q CT*Q a cot. fiber, $HW(T_0^*Q,T_0^*Q) \cong H_*(I_0Q)$ based loop space. In fact, CW (T&Q, T*Q) = C-* (P&Q) aguivalence Ag- 91gebra

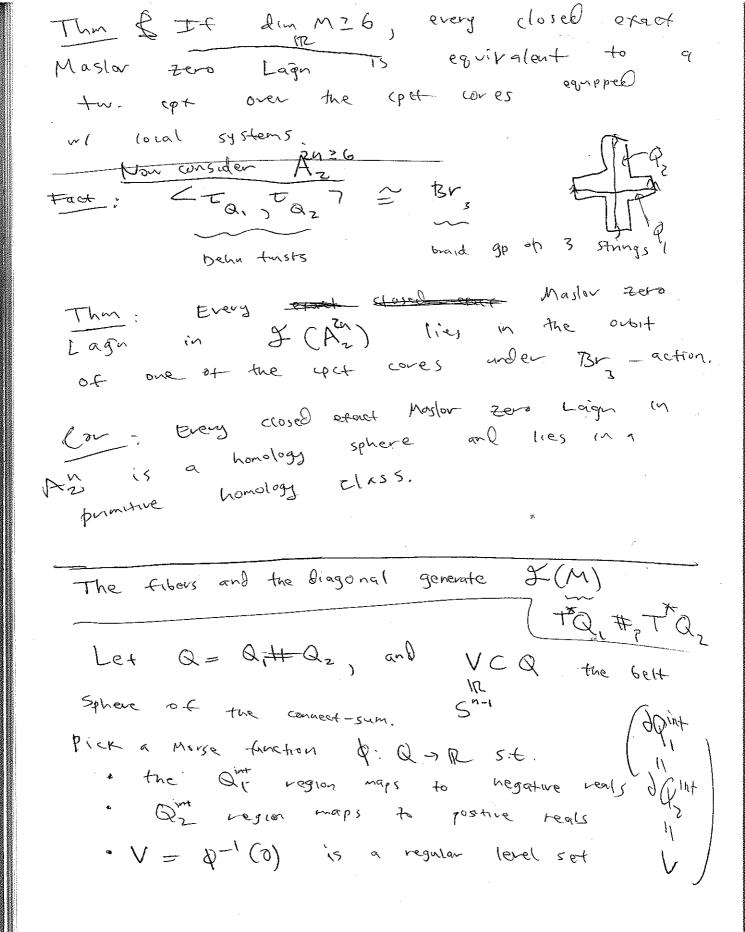


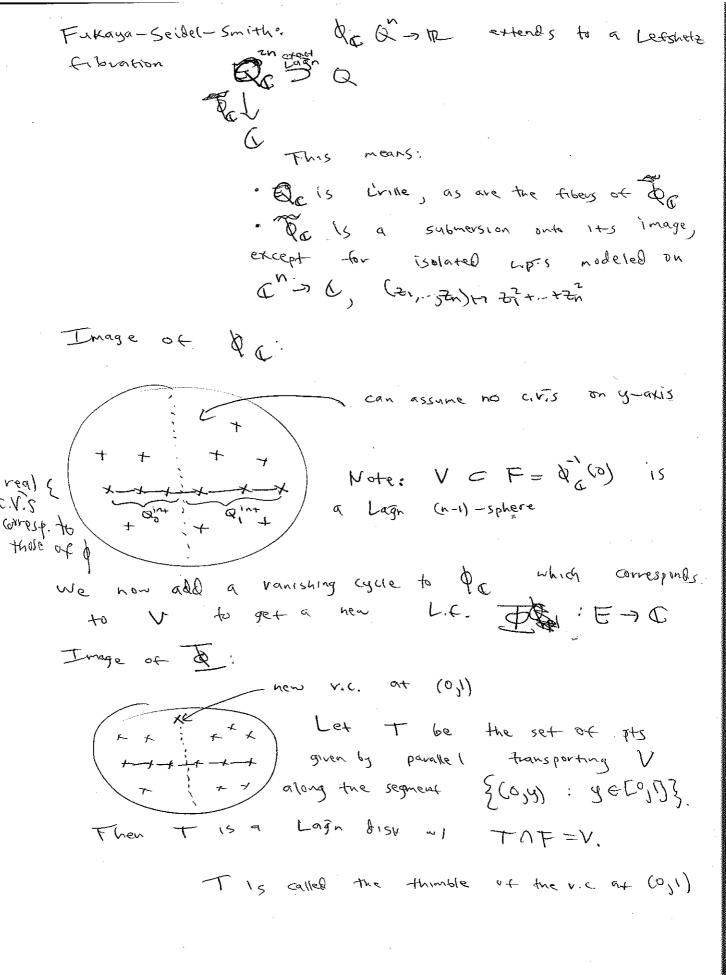
a Morphisms in two tak: mode of morphisms blu sons summands ET: MON (V, OL, OVZOLZ, WOQ) = hom (V, w) & CF(L, Q) & hom (Vz,W) & CF(Lz,Q) · As opns in to Fuk come from those of Fax, tousted by internal difftls: MY TWENK (To, f) Main results: (Aboreail - Settle Smith) Let M = T*Q", # T*Q" Cresults will also hold for pluncing along a tree) Let W(M) = wrapped tuk- cat

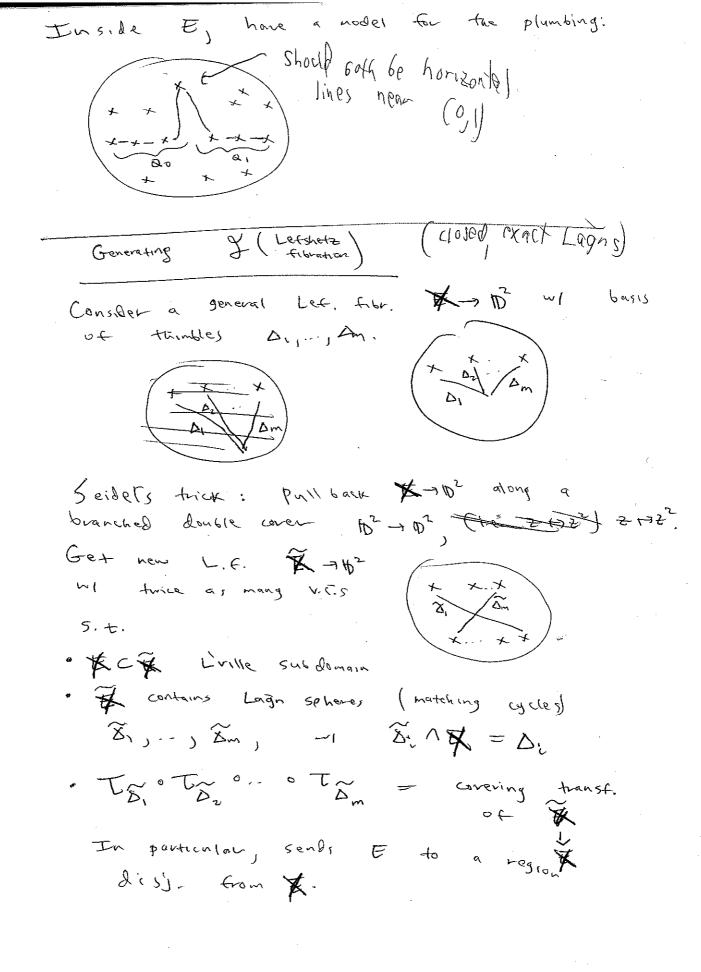
of clused, exact Lagers

(M) = tuk- cat of clused, exact Lagers than I(M) c N(M) is gen'd by the

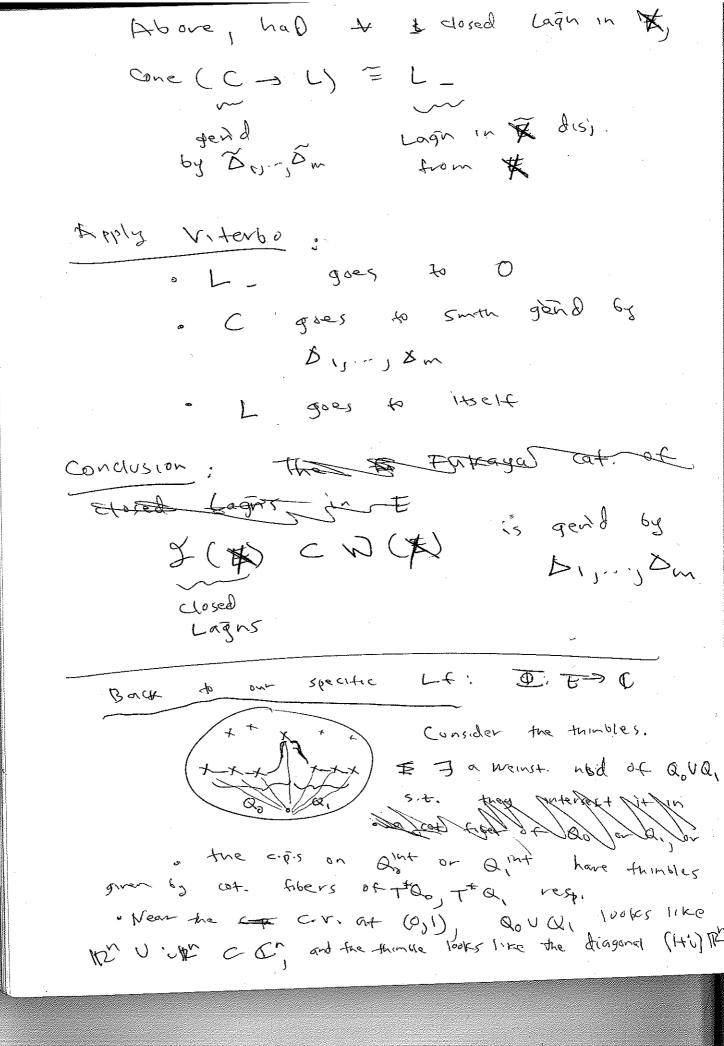
Cot. fibers to Q, and to Q2

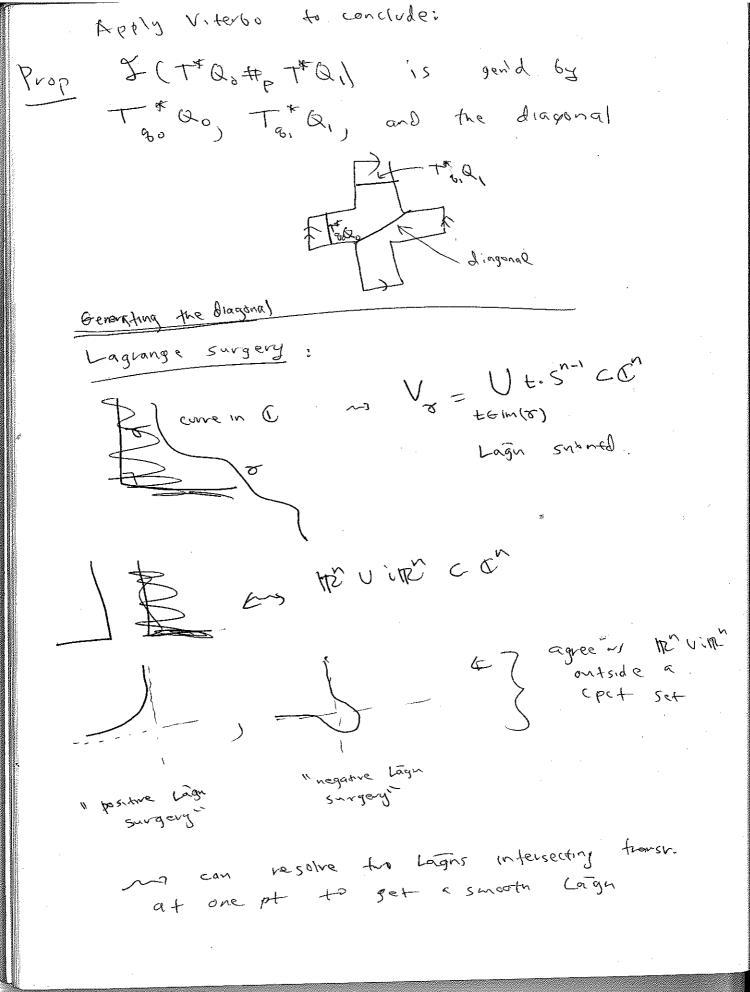


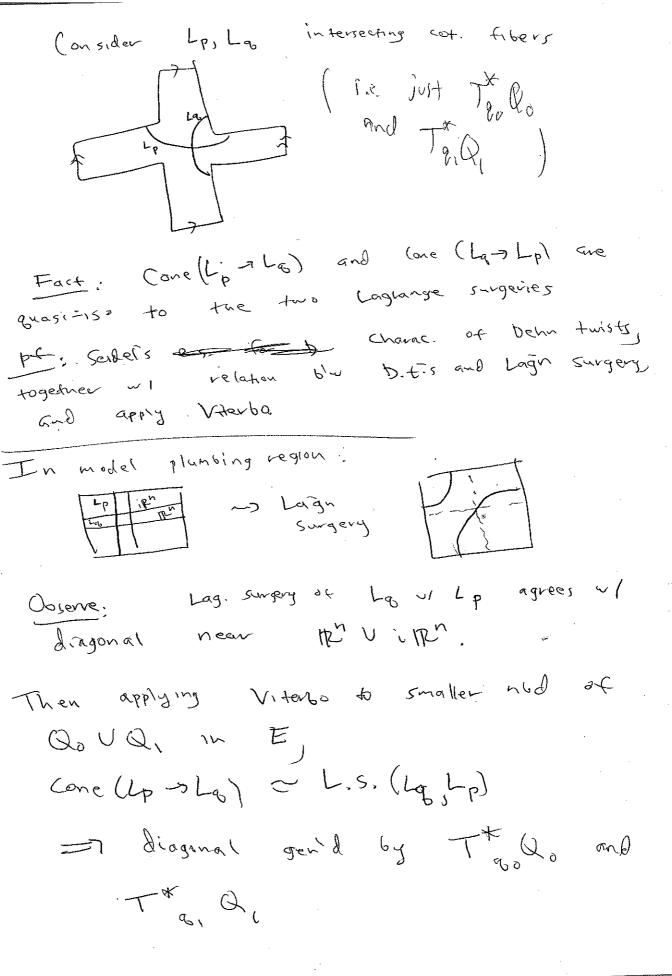


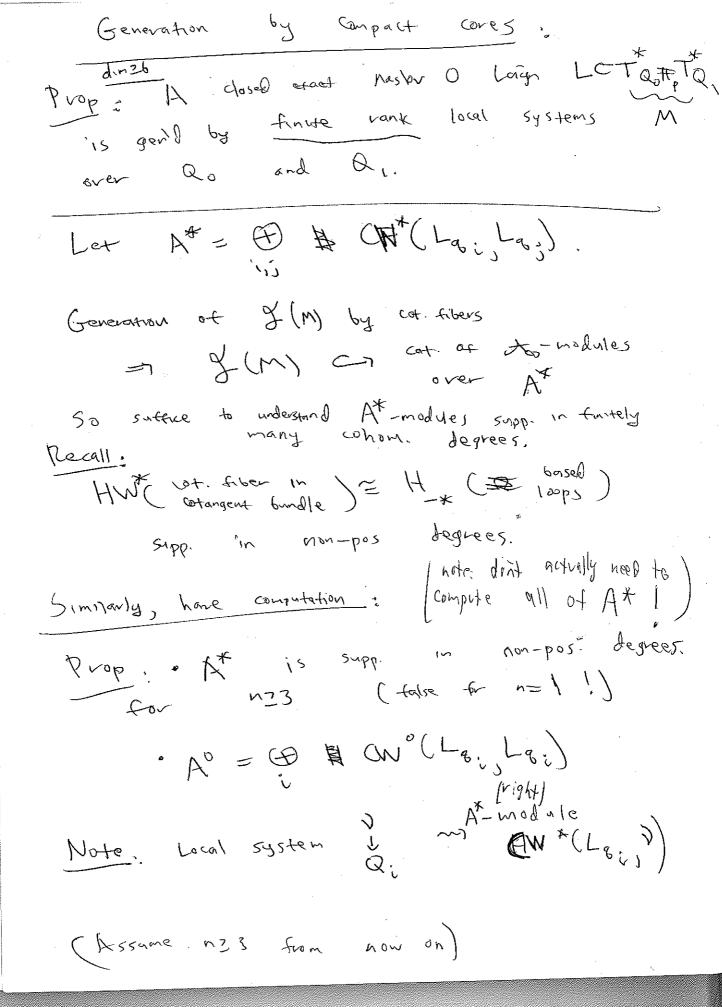


LCX be a closed Lagn. Let TO: L = HF(D, NOD, 5) L Recall: Have To, o ... oto L = L_ a Lagn in & disj. from & Hence E L- = Cone (C-) where C is in the snort of I (x) gen'd by Di, -, Dm. Open string Viterbo Let (W, 21 be L'rille, and assume win cw is a codin o should, and (win, 1) is also Z'ville. Prop (Abouzail-Sadel): There is a A function (D(W) -> W(W) which assigns to a Lagn its intersection w/ Win temp. Hest a possence all a Technical Should restrict to et of D (win) w/w having a locally const. prinitive near the 6dg, and etts of W(W) should also have a brungers open is constant near 9 Min tenk. Compare to Viterbo restr. for SH.



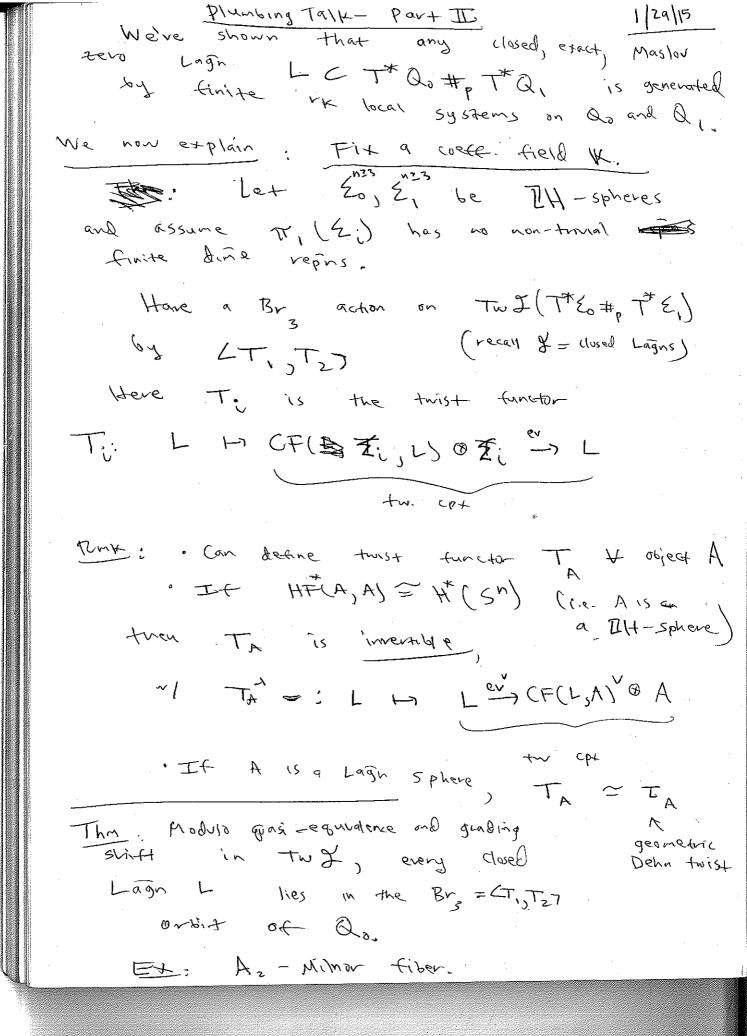




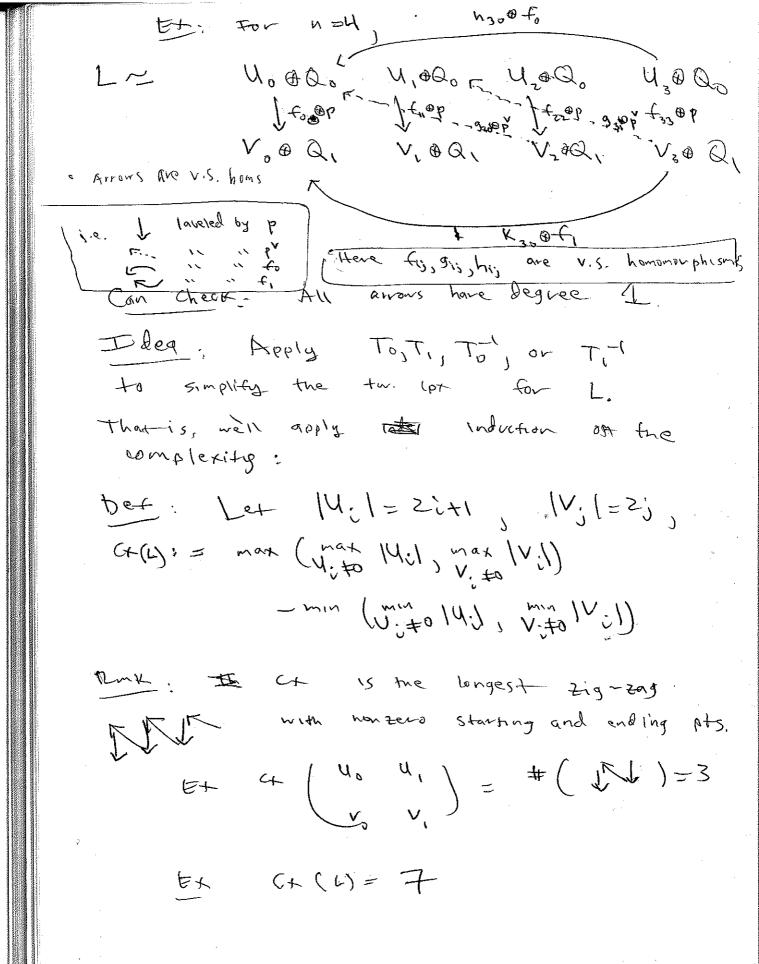


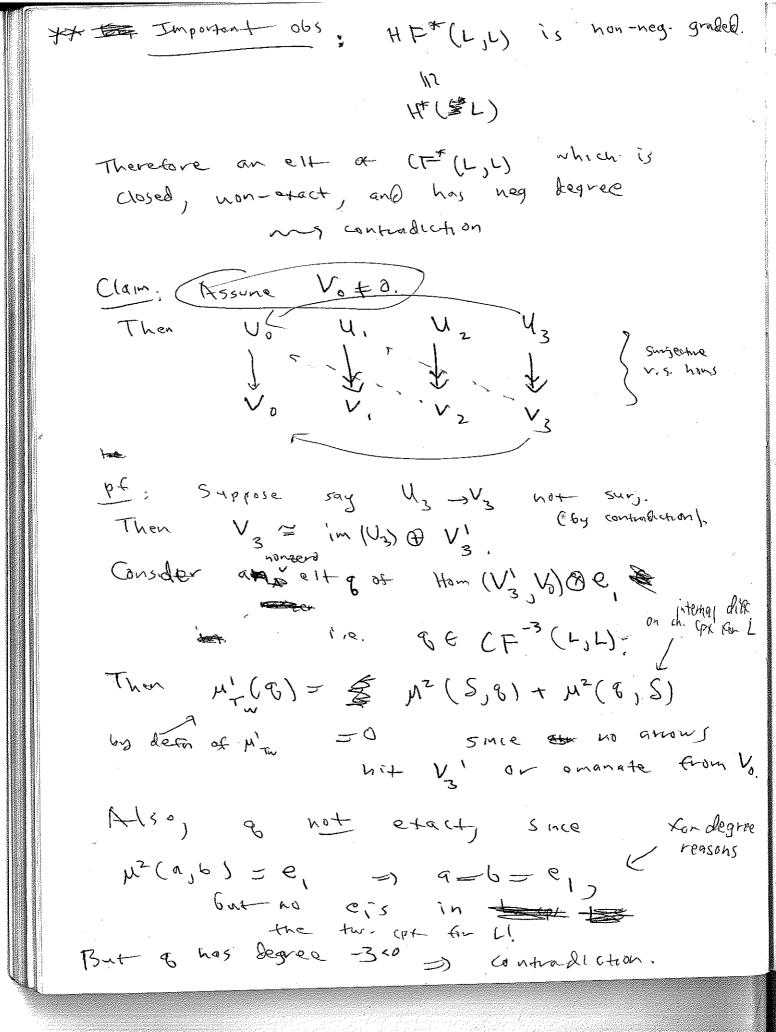
Prop: \$ (Walland = ICT, (Q)) (as rings) (Wo(Lq.Lq.j) - (Wr(Lq.j)) Non consider on Ax-module Px supp. in f.m. cohon. degrees. · Since A* & non-pos & gradel, P* has filtration PSK = \$ U PX \$ " Me: POAD > P has degree 1-0 and can assume P minimal, 1.e. M10=0 . The qualients PK+1/bk are precisely A - modules time Since A° = 9 Zr. (Qi) tere are etactly corresp to a local system over Qo a local sys. oper Q1.

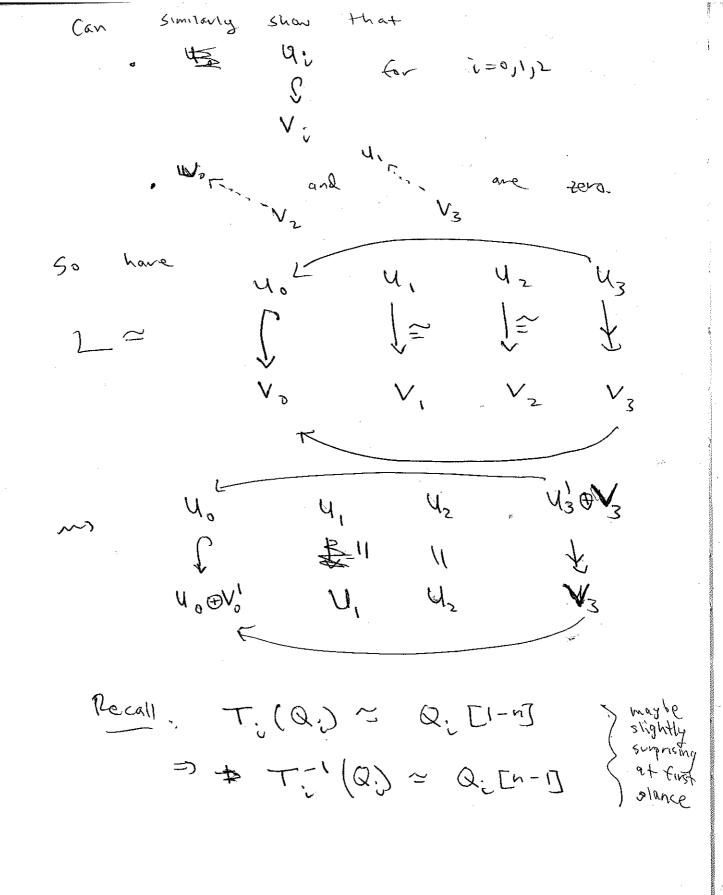
Erem may sue gon 33 (4) 1 = 15 # # 15 = W sins out wi Daber 15 not ton 51 of 1 Land Almes are result. (Sbr21 50) KO = ICA, (B) B I [Ca, (Q)] Ens Bobong . 20g non 71 (2) 2 1 2 m * (T* Q. T* Q.); (2) . Seibers LES advagand is redundant. A gend by the diagonal, e General 1 hay at Lat. Flors ・1915 ・チャイ Det: . Equip Month of the Miss. with, local systems. generated by Go and Q,, equipped the father top the IN T* B # T* Q, is I equation Thm: Every closed, every Mestor 0 Lagn Let Do D, 60 mmths for Ingar in The mast Logar in The matter. For part III, guide veriew.

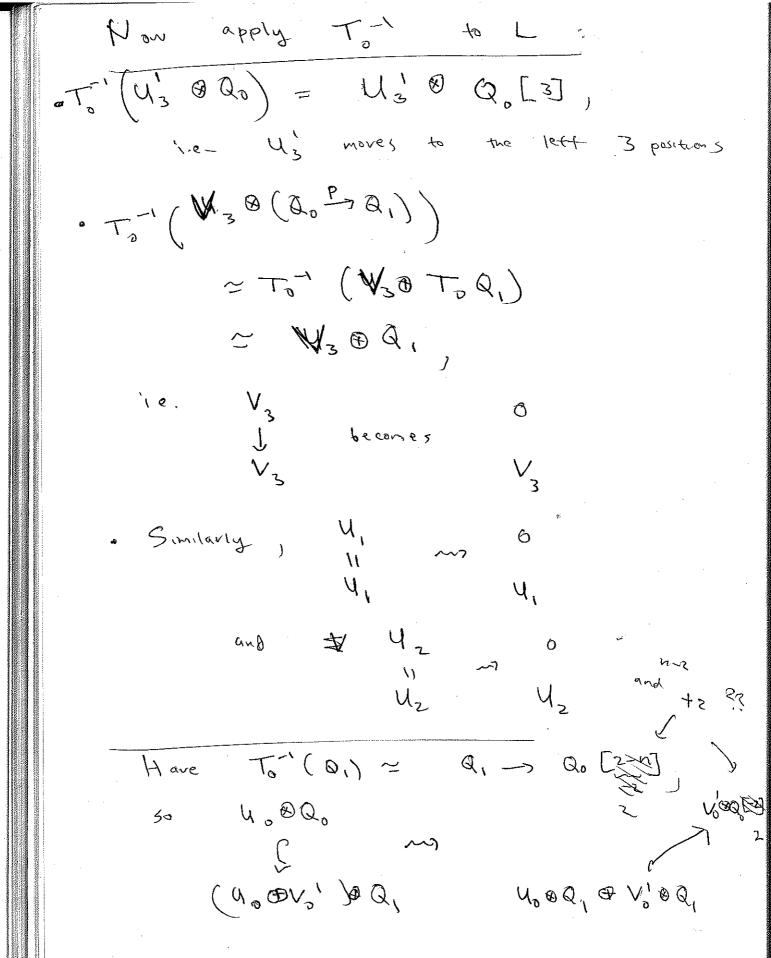


Picking gradings, can assume HF (Dig Qd) = KLE; fir deg o deg u
illemont of time class HF(Qo,QI) = KLP7 Pomcare duality for HELBINDS) = KCDK re deg -n-1 of Assume of is minimal. Also, strictly unitar of Using the fact that At 15 non-pos graded, can prove Leuma: Any Lagn LEY is equiv. to or two cox built from Qo, Q, (no 1.25) Such that home of the arrows are eo or el Observe: The higher products Mil 6'w do,Q, vanish for degree reasons. Hence only have the ET: M3(P,P,P) & HF (Osa) $HP^{n}(Q_{0},Q_{1})=0$ non assume: L is a two ept st with degrees in [O,N], and now R. amows









50 To (L) ~ V° T. 0 43 7 0 - MoV° 4, 4 2 V3 CX(To-(LI) is not & CX(L), 6 ut it is $1 \in V_2 = V_3 = 0$. Far et - Act Note, for ex, then $v_3 \neq 0 \Rightarrow v_0 = 0$, since an take a nontero eft hom (13 40) & e1 clued, non-exact NOT Supposed to be I secured Claim: If dz, V3 not 60th zers c+ (T, (L)) < cx (L) Finally, if Vo=0, theres a similar. analysis in which we apply to or to instead Eventually, get ct =1 => 4800 on 1,000, But HFO(L,L) is I - time => y or V is 1-lime, Also, note that Qo, Q, lie in same By abit!

(sme Teal = tai Qo, at least up to shift) []

Spherical funsts
The call: It's a dants a geometric Dehn twist be Sh admits periodic geodesic four.
Also have such twists for Map, ap, HIP, QP.
The (Both) M almits becoder god. Flav =) H*(M) is a truncated poly-ring
no geometric condidate. The Symp (T* E) image Aut (To Symp) The Symp (T* E) (To Symp) The Symp (To Symp) The Symp (To Symp)
no geometric candidate.
Expect: To Symp Ct (1 E) C MAIN (1800)
For E ZH-sphere;
1727
intersect only in identity.
Problem: of (TX E) har only one object, So need to enlarge sometion. (one approach. Nadler - Zaslow)
Let Mz = +* 2 # T* Sh = T* & U Cort.
Lanny: TEE AUTY (ME)/KEIJ7 has Infinite order. PE: YKHE (Sh, TE (Sh)) > 00 as K-70.
PE. 1844 (Sh) -> 00 95 K-70.

For Tr, (E) #1 No Symp (T*E) image Aut J(ME) LT67 meet only as in the identity. (i.e. TE is not geometric!) will use: Thon (Abouzaid) Let M be L'ville and or: Man the univ. coler. There is andocategory W(M; T) and a pullback funta-7x, 20(W) - 20(W; T) a rending L to TT (L) HF* (LJL) -> HF+ (T-1(L), T-1(L)) and s.k. 115 11 1 H (2-1 (1) for Lichsel · M'(W) acts of autor of M(Will) runt: D(MjT) agrees ws D(M) T, (M) 200.

pf as the about TE, Ly wir. m Suppose by contr. that The is geometric -L' = " - 2 (5") ~ = = -2 (5") = 2[n-1] [2 E L 5" ged metric expict coefe field IX 5+. Char (IK) Indes (various it 111, (E) = 0) & m, (211 Explying To, get 77 (L) = 2 [n-] = 2 = 77(S") = EEn-1) D (Z GT'(S)) Note: & connected = s indecompossible. Claim: 24 T-1(5") also indecomp. Lemma: In W(Msir), &[n-1] and ZE TO (Sn) are not in some deck transk 00614. PB: Applying HF(-, of TI-1(SM)), god different vanks.

But the components of IL + of T- (L) a all related by beck transf are · each indecomp. & Claim; over IK, the indecomp. decomposition is unique. ~~(L)= ~(S")) This contradicts indecomp, not related by deck transf with scallar techniques, can prove: Thm; Let Q be a simply-onn U-med. Suppose to has a coetly Supp. Symplecto acting non-trivially on objects of J (Ma). Then Q ~ SH or C/P2

Mtpy