Z Sylvar, Partially unapped Floor theory

Idea: Enhance wrapped Floer theory using Late on DX, X Liouville domain (partial) compactification data for X'')

Def: A step 6 c d X is a hypersuface a/ 2 s.t.

(6, 2x/6) is a Liouville domain.

E.g.; page of an open book on DX.

• $W^{-1}(pt)$ for $W:X \to \mathbb{C}$. $\{near \infty\}$

· Smooth legendrian L c 2 M, thickened in contact direction. (modeled on T*LcJ2L)

* Expected: save the unthe singula L in particular for D Lag. shelpton of X.

flu: posent to bounday

of so + get

F-(in

reconneble case)

I W

Idea for Floer theory w/ 6

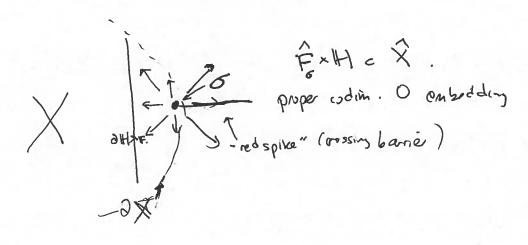
Pick Reels vector field adapted to 6 i.e., o 5 still still symplectic,

=) all trajectores tooking to de,

or have some intersection number no > 0.

"partially wrapped" just means $N_6 = 0$ (fine trajectories in ∂G).

More accurately: use local model FXIH & Completion
There half space



In this bocal model, have a central fiber Fo; want to charge H&J fixing for (>> positivity of interestres u/ Fo)

Open strong case: get a fithertion to (only considers lagins mussing 6). CW:= CW (CCW C -- CCW).

Closed stony case: more complicated.

Def: Partially wapped Fuhaya categories: Wolx is an Aso category Ob = { ob W which avoid 6, eg., Lexact of Leg. 2 avoiding 6} hon * (lo, L) = CW * (Lo, L) = maphines avoiding 6.

In local model, unapping vector field goes from

spile

spile

spile

thought is F may occur
in the fiber.

Expectations: (Illup to tw") · Wo (X) = FS(W) T step assoc. to superprenential (paint: Himbles don't see funny dynamics at xx on saddle x, bk they're proper to F), · WG(X) = LDGA(L, C*(RL)> (if W(X) = 0) [cf. Ng\$ situation].

(ble in whis case Was open. by one object (for each conjunct of la), whose endonophous motes) · WED (X) = 4 Show (X) Shelpten for (Nadler.)

X now, and We stop, $G_{\Lambda} = \mathbb{N}_{\xi}(O^{\infty}_{\Lambda})$.

Pur stop, $G_{\Lambda} = \mathbb{N}_{\xi}(O^{\infty}_{\Lambda})$.

*I inclusion functor $G_{\delta} : \mathcal{W}(F_{\delta}) \longrightarrow \mathcal{W}_{\delta}(X)$ via: Little (Orlor functor) (Orlor functor). Thm: (S.): If to is strongly non-degenerate," then the map coller (16) -> W(X) is fully faithful. (note: engthing in iney of the to is a zero object in W(X), b/c displaceable). Exten the blowing are shingly non deg: · Expect: Wenslein domains (admitting new shelpte) * Open surfaces (other than D^2) [Garatra-Pardon-Shende]. · Cotangut bundle (Aboutzaid)

Ex: if w(x)=0, 21 = 2x snooth, take $i_{g}(T_{g}^{*}\Delta)$ =: L, expect $End_{W_{g}}(L,L) \cong 2D6A < L$, C. (574) stranger than in progress: (S, GPS): Say have (M2, 62), (M2, 62) has an isomaphism of files F62 = F; and \$ strengly usudegereate. Then, can form M = M2 # M2. Get ermaps If M as stunyly degen, get W(F) $W_{6_2}(H_1)$ W(Y) $W_{6_2}(H_2)$ filly faithful map de prohat -> W(M). 15 a pushat square. Given a codin O embedding of LD Min CM, get "Vitorios transfer maps"

Example: Vitebo functionality

SH* (M) -> SH* (MM) (Vitebo) (Kragh) W(M) -> W(Mm) (Alossaid-Seidel),

M M M M M M >> 1M, 1Min Computation: LMM: W(Min) -> W(MxD) is felly faithful. with no assumptions.

Cors If Min is strongly non-dager, then
two (dmin) is a guest-equi.
A_{Min}
=> Con recover Vij = (Tw /LMin))-1 ody.
Application: If Wo is a subpolynomial of a superpotential W (= sun (monomial)) (some of the monomous) D= UD smaller
D = U D2 smaller d.,
then there is a Liouwile enbedding W (pt.) co W= (pt); and
can decompose
$M_{ij} = M_{ij} + M_{ij} M_{ij} + M_{ij} + M_{ij} = M_{ij} + M$
$ \rightarrow \text{ map from } \mathcal{W}_{6_W}(X) \longrightarrow \mathcal{W}_{6_{W_0}}(X). $
(maybe seeable in teas of post-life Wo to pel othe monomule, & seeing a seni- orthogonal Jecopos-tre)