

(84) where of is the time & "admissible per tire flow", "counterclockwise bent (in the angular setup) wich is large enough so that deks L: What is an admissible flow? In the straight-lines setup, consider the vector field on the which equals by for Hamiltonian flow of h(xy)=x (when x>0) An admissible flow is any flow of how. In the angular set-p, last time we suggested that one over use flows of the form how where hor , Xh is do on OID? Note that this flow is not admissible for a given flow for all times (of the trees can hit an angle to after being floun). We may not be able to find a flow of K such that of K is admissible the E with dekst Soltion: callow flows which on CI Keper have the form ho = X(0) h(r) where X is a citoff function equal to at - in. Lemma: Floring by any time sich an hoo ow preserves admissibility. Proof: check hr,o is radial: never a, sends rays to rays. B For today, suitch for how zontal ray framework for F(E,W).

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Cohomological product: given Lo, L, Lz admissible, define
     [ 12]: Hom (L1, L2) & Hom (L0, L1) -> Hom (L0, L2):
  chase E, E, so that $\epsilon_{\xi_1 \cdot \xi_2} \to \def \(\xi_1 > \text{L}_2) \), and count triangles:
    HF° ( $\delta_{\varepsilon_1} L_1 \) & HF° ($\delta_{\varepsilon_1 + \varepsilon_2} L_0 , $\delta_{\varepsilon_1} L_1 \) \\ HF° ($\delta_{\varepsilon_1 + \varepsilon_2} L_0 , L_2 )
                           = HF° ( de Lo, L)
 Desired qualitative behaviour of F(E, W):
  * L = L whenever L is compactly Hamiltonian isotopic to L.
  * Invariance under admissible flows; meaning Lo and of Lo Yt
    should be grasi-isomorphic objects.
 I Why are we not obing this on chain level! For a pair (K,K),
  fax Ex with PEKK>K. Once and for all, set
  hom (K, K): - CF° ( de K, K) Get
  A: CF ( OEKK, K) @ CF ( OEKK, K)
                        CF'( $\phi_{\epsilon_K} K, K) & CF'( $\phi_{\epsilon_K} K, $\phi_{\epsilon_K} K)
          CF($\phi_{\mathbb{E}}K;K) \sigma CF($\phi_{\mathbb{E}}^2K;K) \ Delicate no nale a choice.

But .-- he map \( \times \) is ad geometric.
[Aboveaid-Seidel]: An - construction of F(E, w)
  We use an auxiliary alogory Ow
· do Ow : - admissible lagrangion branes in FCE, w)
                (CECKT) if K>C
 homo (K,L) = \ k < et > if K=L (means Bx = Dz and K=L)

O otherwise
Notice that compact lagrangians fit into this stony : we can either say
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* if K compact, Dx = \$, and \$ & anything R1(20,0) or * consider for every K compact, all objects of the form (K, I) This is a directed category, meaning obow is a poset with hom (K, L) to inless K> L. This is easy to define as an Ao category: e' is a strict init, and pk. homo (Lb., Lk) @ - @ homo (Lo, L) - homo (Lo, Lk) So unless Los Los Los -> La cusual ph with 5-hol disks. Rem: + Li th near oo . no need for them perturbations if Li are pairwise transverse The Ano-relations hold because "Los -> Lh" is preserved under passing to linear subsequences of objects. Note: + if L, i differ by some compactly supported Hem. isotopy, then I'm Cw. * L & Decause note $\neq \phi_{\varepsilon} L$ because note $\neq homo (\phi_{\varepsilon} L, L) := CF'(\phi_{\varepsilon} L, L) \cong CT'(L)$ (if ε small, L has

one end) * home (L, de L)=0 Definition for every 1 € 000, there is a common element q EHF (qEL, L) .- H° (homo (deL, L)) quari-int, defined by Z # (fee Mil) x or by 1 & CT°(L) The collection of all quasi-units gives a class of morphisms Closur of 2: it satisfies O(2-1): O(2-1). R Mole Lat' in F(Ew): 921-925 L of L' > L of any pair of compositions in \(\frac{1}{2} \).





