K. Fullaya [ -/ A. Daeni]. (X, w) cpct. sympl nifeld. DeX assume X hibb near D. Tomos K divise ( nayle naval crossings) This. J Filhed An at of obj. Lc X \D (cpct.) laga not spe usy only hole dishs in X D. Coi: BEHZ(X/D,L) L rep. Sp 474 for B rep. by hd. List.  $u(\beta) = c\beta r (\omega) nonskn$ M (B) BETZ(XD,L)  $\{(D^{1},\overline{z}), u\} | u: (D^{2},\partial) \longrightarrow (x \backslash D, L)$   $\overline{z} = (\overline{z}_{v_{1}, -v_{2}, k}) \in (\partial D^{2})^{k}$ disjontyospect cyclic order / \$\frac{4}{\phi}\tag{, Main Thin: 3 a compactification MRGW (B) () cpct, Harsdorff, (medazable (3)  $\partial \mathcal{M}_{k+1}^{R6W}(\beta) = \bigcup_{k_1+k_2>k+1} \bigcup_{\beta_1+\beta_2} \mathcal{M}_{k_1+1}^{R6W}(\beta_1) \underbrace{\overset{\circ}{\times}_{ev}}_{k_1+1} \mathcal{M}_{k_2>k+1}^{R6W}(\beta_1) \underbrace{\overset{\circ}{\times}_{ev}$ 

Andreword Mr64 (-) is:what? first ((Z, Z), 4) = Mari(B) = stible map contricting. 2-041 D free life disci / free -like sphees attacked -25phere in D. Have fight map Mr6h (B) - MK+1 (B) ((5,2,4), l, m, (d) level wholicopy (for nomal crosses, has a level fors, , a multi. & h.) XXD = compact v SND Xx (9,50) f in X\D for for JQ 1=0 nhood of D 1=1 nhood of D

"R6W" = "Relihie 6W"

What's l?  $\Sigma = \bigcup_{\alpha \in \mathcal{A}} \Sigma_{\alpha}$  where  $\Sigma_{\alpha} = \mathcal{D}^{\alpha}$  or  $S^{2}$ , 184 of ired corporert level is africting lid -> Zno, satisfying: · l(a)=0<>> 4(\(\xi\_{\alpha}\)) \(\xi\_{\alpha}\)) (kchnul) = In l = 20,1,-, 1213 means \$ a gop (50 it moxim is 121) also L. to any i < /// Defre DP := double point of 5 P · PEZanZi, (genus O su no self-seethu), The nuthplicity () m; DP - ZZ0 (3) Sipping l(a)=0 & l(a') >0. y := u z : Z -> X w/ image not in D. bux(p)eD. Then m(p):= int. multiplicity of ux with Dat p.

Il both level ar >0, mis extra information,

Soppose 
$$\Sigma_{\alpha}$$
 s.t.  $L(\alpha) > 0$ 

(5)  $\Sigma_{\alpha} = S^{2}$ )

Define  $W_{+} = \frac{1}{3} p + \sum_{\alpha} n \sum_{\alpha} |\lambda(\alpha')|^{2} |\lambda(\alpha')|^{2} |\lambda(\alpha')|^{2}$ 

(8) Shelt relation.

Then,  $\sum_{p \in W_{+}} m(p) = \sum_{\alpha} m(p) + u(|\Sigma_{\alpha}|) \cdot D$  [beloncing endither], pelve.

PR:  $\sum_{\alpha} m(p) = \sum_{\alpha} m(p) + u(|\Sigma_{\alpha}|) \cdot D$  [beloncing endither], on  $U_{+}^{*} N_{+}^{n} \lambda_{+} + \sum_{\alpha} \sum_{\alpha} m(p) + u(|\Sigma_{\alpha}|) \cdot D$ ].

This inplies the followay: on  $U_{+}^{*} N_{+}^{n} \lambda_{+} + \sum_{\alpha} \sum_{\alpha} m(p) + u(|\Sigma_{\alpha}|) \cdot D$ ].

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This inplie

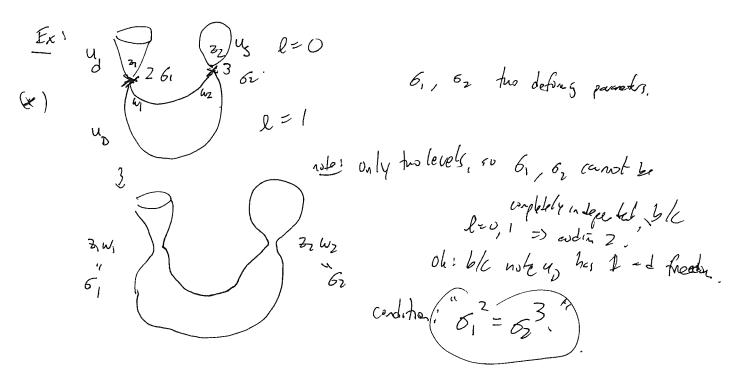
Here, odin is 2 # bods. whereas, It shoke my gotherates, colin is an tengular points. Topology , gay  $\left(\left(\frac{2}{D_{i},\overline{2}_{i}}\right)_{,\nu_{i}}\right) \longrightarrow \left(\left(\frac{2}{2},\frac{2}{2}\right)_{,\nu_{i}}\right)_{,\nu_{i}}\left(\mathcal{L}_{\lambda}\right)_{,\nu_{i}}$ Requireto:  $((D_1^2, \overline{2}; ), u_1) \longrightarrow ((5\%, \overline{2}\%), u_9)$  as underlying stable up) means@7 w; s.t. (D2, Z; vw;) wo (Zs, Zx, ws) (to shibilize) In \ 2-nhood of DP = Es the  $\sum_{\alpha}^{2}$   $\bigoplus_{\alpha,i}^{2}$ , r/ U; o £, i ← close is c ≈ since. asmys on 5° another conditions red ross & get very onell.

Entho,

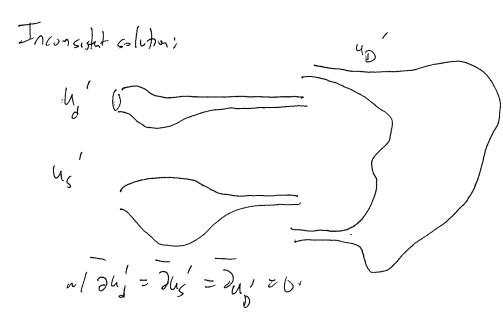
E Pala): 

A converges

Kuranishi Ariches: much sure as beken, but some abbelies asseting lying dialysis;



This is a bad undertwo: ble suggests your neighborhood of 1\*) is a cuspel So, need an endre type it known to hard to handle Diet:



concident in the second of the

(a) Modeli of inconsistent solutions is a smooth mobile Minconstr.  of orginal configuration of is Fredholm regular.  (or obstruction bothe, etc.,
Minish — Smooth map. (or 7 d kuranishis mp. etc.
Ten set; $\beta_i = \beta_2$ is elt-of actual moduli spres, one made to study.  Explanation of (a) sheeth: uses "alternating method" of gluin;

Explanation of a sheeth: uses "alternating method" of glung: