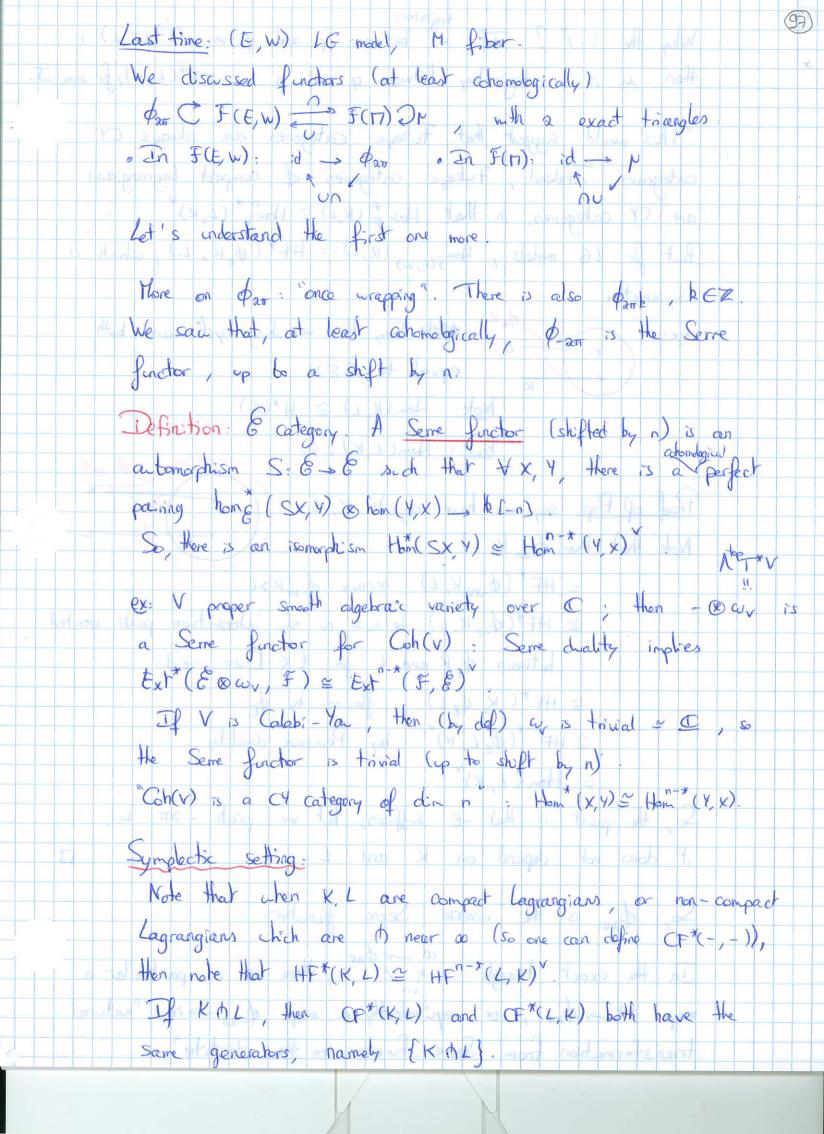
Rem: about UK & hom; (D, UK) @ D. For & S. Such Hat 25/05/16 A generates &, and then any object KE &E is isomorphic to i, i* K, for adjoint functions Mad(b) = PG(E) * Analogy (Cat, 6° x 6 how(-) Chk) (Vect, inver protect Vx V = k) W & V map of v.s. with mer product - We have a projection ixi*: V > V. Art W=V => ixi* = id. * Given an object KE ob &, there is a canonical mobile ixi*K & Rod(&), ix i* K(x): home (x, f) home (As, K) @ home (As., As) @ @ home (Ao, A) @ Ao) (8) Proposition: A solit generates & Sixi*K & K <> K is a summand of into K => 1 =0 in home (K,K) := Cone (home (K, ixi*K) - home (K,K)) Now in the setting where one thinkle A generates, let A be the subcategory with one thimble. There is a "mirinal model" of " bomin nith ob Amin = { A }, End d (A) = te < e +> Lemmas when A is strictly unital and argmented (ie hong (x, x) +x & ex + or) define the augmentiation ideal by hon = (x,y) = { hom (x,y) if x f y ler (fx) if x f y (so, it is everything but the ex's) The lemma is that there is a compex, grasi-isomorphic to (8), that consists in (8) with all the &'s reduced by As F(E,W) Cotor our Amin given by the thinkle D, we get ixi* K: hom (△, K) ⊗ △, and no other terms.



Why the (-) ? If a between p and q in 97 (K, L), (98) then it is a trejectory between q and p in CF*(L, KI, for some J. This would suggest that Fibaga categories are always CY categories Indeed, Fikaya categories of compact lagrangians are CY categories, in that Hom & (K, L) & Hom & (L, K). Bet for LE models, Homfie,w) (K, L) = HF* (&K, L), which is A K equal to SSM. asymmetric. Note: Hom(K, L) = H*(S) BJ: Hom(LK)=0. Troof of Prep, say we have objects K, L: = HF* (\$ -av K, L) because \$ -av K>L = HF*(\$eK, L) because no non intersection points created between of K and L for t E [217 - E] ≈ HF*(K, QEL), floring by QE I HF (\$\phi_{\epsilon} L, 14) by Poincare diality =: tom (4, K) So, the point is that -E siffices, let we pick - att it does not depend on K and L So, open is the inverse Seme function. In the exact triangle of there is in particular a map id -> pan, or equivalently a map \$ -20 "natural transformation from Sense function to the identity.

This is an extra piece of data determined by the geometry of F(E, W), beyond what's in F(E, W): Theorem [Seidel, Abouzaid-Seidel] The data (F(E, w), {o-an-sid}) "determine" the wrapped Fileya category of E (independent To first order, the map id -s day is determined by an element WE HONFIEND (ON K, K) XK E OD F(E, W). This element is induced by continuation maps. $\frac{d_e d_{2\pi} K}{K}$ We can set up a subcomplex which looks like $K = K + (d_e K, K) \approx C^*(14)$. Or directly with continuation maps HF*(\$\phi_E K, K) -> HF (\$\phi_E \phi_A K, K) Theorem (Abazaid-Seidel) (We are using it as a definition) The Subcategory of the wrapped Fukaya category with objects ob F(E,W) is by definition W:= F(E, W) [(id = \$\phi_{20}3^{-1}) Jorce all w's to be ismorphism hore Abouzaid 2 Seidel also prove that if KE & F(E, W), then in W K ~ Com (-- > ofun K ~ ofan K ~ K) (Need to enlarge FIE, w) and W to have arbitrary limits). Now, in F(EW), this diagram -- > den K "> day K ">K the property that if one takes how with I, then multiplying w ∈ Hom (\$2 TL, L) is a homology isomorphism. Hom (..., L) = lin HF* (dann K, L). Eventually, His implies that HF*(O200 K, L), assuming no HW*(K, L) = Homm (K, L) = lin Hom (dank, L)

(100) Rem: usually one takes this on the definition of the Tipoga category, and then the theorem / definition above is really a theorem. We have a triangle id to meaning that for every K, he have K, w- con K, where w as before We can iterate that triangle, to get K C Oan K Some finite complex built of U(...) (Implicitely, we always work in Perfl.) or triangulated hill) Corollary if Hw* (K,K) = 0, then in F(E, W), K is split-generated by the image of U: F(M) -> F(E, W) Corollary. if E= C' or some other "subcritical" manifold (>> HM*(KK) =0 AK) => for such E, and any (E, w), V F(Me) - F(E, w) solt-generates Proof HW*(K,K) = 0 1 =0 in HW*(K,K) = 1 = HF*(0 K,K) (3) 1.0 in HF* (\$\phi_{2\tau} K, K) for N>0 The image of I have is exactly in (or a product of w's) So for some MDO, we have K = \$\phi_{27}^{N} K = \partial_{27}^{N} So K & Park = confex of U(-)

