```
IAS conference, 3/13/2017
      D. Annux, Towards HMS for complete intersedus in teric varieties
(in progress, / n. Aborred, sie 2012)
                                                                                                                                                                                                      (3-model on complet whole)
       School (Hon-Vata, - A-Aborred-Katrakov).
              • hypersurface in (\mathbb{C}^{*})^{n}: \{f = \sum_{x \in A} c_{x} t^{f(x)} | x^{x} = 0 \} = H, where |t| \ll 1 cor Novikou parameter
                                                                                                           P: A -> PR (satisfies rue convexity readation )
                                                                                                   (if is Noutes weld, on cold be a pone seet in ti
              (~> D°C4(H))
                                                                                                              Cy unitary
            · In toni variety V;
                      H = f^{s}(0), f \in O(X).
                                                                                                                                                    nf. (0), fe (9(2)
           * In complete interection, H = f_2^{-1}(0) \cap --
mirror is a Landar-Grazbyg model (Y,W), where (codin k is fire 1-ft)
                    Y: tone CY (a+k)-fild, I usmant polytipe
              Dy = {(32, -, 3n, 7., -, 7k) & Rn x Rk | 1/2 / (32, -, 5n)}, where
 V_{i} = \text{Trop fi} = \text{Max} \left( \langle x, x \rangle - \rho(x) \right),
V_{i} = \text{Extra thing which seen b}
V_{i} = \sum_{i=1}^{K} w_{i}^{0} + \sum_{i=1}^{K} k_{y} T_{i} = \sum_{i=1}^{K} w_{i}^{0} + \sum_{i=1}^{
                                                                                                                                                  ~> ( F(W) )
                                                                                                                                                                                                                                                      and change
                     W_{\nu} = K_{\nu} T^{c(\nu)} < \nu, < m_{ex}(\nu) >
                                                                                                                                                                                                                                                        ant locus
                                                                                                                                                                                                                                                         LIC Cooks.
                                                                                                                                                                                                                                                     nonless tomes
                                                                                                                                                                                                                                                           hill of the
       key example: (n-1)-pair of parts
                                                                                                                                                                (x,+ xx = 0) = mox(5,, 52, 0)
                       H= {x+-+x,+1=0} c (C+)^.
          (compactly to Pn-10P1; Y same, W= -31-3nx1+ TZ, +-+ + TZ, +--+ TZ, +---
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(2d stabilization of voval mora of Pn-1).

## Statement:

1) can define a "fibremore wrapped" "fiberine abunisale" Fukaya category F(Y,W) (the working down were at how & uses their structure of Y.)

[hope: Z. Sylvan, or Garden-Parden-Sheete might give more general del'as.]

2) can constrot dojects by of F(Y,W) for all X & Pic(V) (conj: they generale; this carj, would be use cersible one ded'is the made more general)

3) can calculate H\* Hom(Lx, Lx) = Ext\*(x|H, 2'|H).

u/ composition strature matching.
[went: Aso strature matching]

{ subcot of DbCd(H) gues by hie Ldles restricted from V} < -> (Jubicot & F(Y, W) After An enhancing, would got: considers of Ly & hope there are exact to generate both sides ( known for DbCoh(H) side ).

(1) F(Y, W)?

convented undon: W(L) should look like

charges: allow

multiple sectes, (avoid - N).

(4; just for ex-placety)

Objects: properly embedded Lagor Ley not bounding any hol-daks to unabstrated (poss. of bounding and that such that

Image of L under each of wi is, outside of acpt. subset, as union of radial strugt lines eight, Fiber of Wo= (wi,-, we): Y -> C & over a point of (C\*)& looks the 2(C+)". [e.g., pats, (CM+) = 30--2n] inok general fiber = (C+)n]

b over this strate, it a form degeneration of (OF)". (+ a union of after speces), [c-g-, flow of O of)]

· within fibers, "asymptotic flatness"; 22
I a furthe allection of toric monounals on least Y, and en open cover Uz of R", sit- for fixed
(wi, -, we), as 2 -> 00 " with log/2/ elly, arg(2) = Cx, (4)
e within fibers, "asymptotic flatness"; $Z^{\lambda}$ $\exists a \text{ furthe allection of toric monomials on Color Y, and en open coner Ug of R, sith for fixed (w_{i}, -, w_{i}^{\alpha}), as z \to \infty " with \log  z  \in U_{\lambda}, \arg(z^{\lambda}) = C_{\lambda}, (y) \lambda \text{ includes rays of fun of V.} (if showe c_{\lambda} = 0, then z^{\lambda} should be real z^{0} or z^{0} or z^{0}.$
Ex: for (C"), -20-2n), can ask: for head W, as 2-> 00 wheneve 13/> pw//n+1)  arg (35) = 0 on L.)
arg (25) = 0 on L.)
The R+ on His
Lafter = l = (C) 2 - R2
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Labe = $l = (\mathbb{C}^p)^2$ $\begin{cases} \frac{2}{202} \frac{2}{22} & \text{where } \frac{2}{2} \frac{2}{2} \in \mathbb{R}^+ \text{ en this } \\ \frac{2}{202} \frac{2}{2} \frac{2}{2} & \text{where } \frac{2}{2} \frac{2}{2} + \mathbb{R}^+ \end{cases}$
(if impose any (z) = (z, cannot use std. leahler form on Curl!
( in impose any ( t ) = (2, carnot use 300 - leasting sense )
(So noted, defen std. Käller form using this liter "convex emostlings of make from."
(So noted, defer std. Kaller tour
to get obot equality for (*))
1 compactify 20 to 60, get - 20 3/3/4 [30+ [3] + [3]
50 Ladoussible => adoussible for This marousal too.
702,22 / - Ck 1 4 10 10 10 10 10 10 10 10 10 10 10 10 10
Florence in floor of wo , Y -> Ck, Lis admissible for early torms Wy.
of: flow in each of base of wo.
moves radual lines cow without crossing R-

lift is fel lagrangian,

· florence: of 6 Han, preserves fibres of wo wraps at constat suce in fibers. · Define Lt = opt L. (in either order), and Hom (L, L') = lim CF(Lt, L') (assurptives made ensue that, due b behavior at so being contribled, to it well defined for all Rah: in fiber of wo: Y -> Ch, have ((C+), Wy) & exactly the tri muse b V and pt = 5 when Vis compact: "Fullayer - Sentel" category l when V= (C\*)"; linear wrapped. At w= (-1, --, -1), this is constict. (gaph). Nov, gren a hie budle 2 -> V, Albarzard's thesis gives 1(2) c (C\*)" 12 Junoment map graph over R" Parallel transport L(X) over (chech: fibrenise admissibility presented), K. ~ get L(Z) hon (L(X), L(X')) = lin CF(L(X)+, L(X')). For a large + 20, this looks like: & 2 hors of is where intersections hopper.

Lixi) have, have

l(X & X; L') X;

ith defines live bandle

To an Abordand's thesis; CF'(l(x), l(x')) = Ext Do(V) (x, x') (more precisely, ceah model cpt inappring Ext) e(x), e(x')

In genul, the  $2^{L}$  proces, both are given by, for each  $L = \{1, -, k\}$ , by hom  $(L(X \otimes X_{\mathbb{Z}}), L(X'))$   $X_{\mathbb{Z}} = \{0, X_{\mathbb{Z}}, (G^{*}, w_{V})\}$ .

- connecting deflerated: multiplicate by fr & O(2); (5.5 koszal complex:
- product easier to understand than deflerately.