Perutz, HMS & seclosel-open stong maps	
with N. Shordan	
Phose 2: also 1/5. Generalis. Setup: Asido (X2n, W) opet. symp!	
oc (TX) towalized	
cor more gruntly 5. n. c. divisor)	
• $\theta \in \Omega^{2}(X \setminus D)$ $\omega \mid d\theta = \omega \mid_{X \setminus D}$.	
We'll be using the relative tuliage rategory	
F(x,D): curred A = cat. over K = O((q)).	
ob: epot exact Lagins, in XD.	
hon: usual Flow co-chian species, coets in the.	
psendo-hol. polygon neighter by 9 .	
F = twF(x,D)nc split-closes trangulated A on rategory.	
B-side: Xan cx. analytic family, smooth, proper, religión n.	
M C C	ke .
w 2 -> X v. angle rel-bess. (give, x c) CP x D	
In holo. In fan, non-dez. on fiber.	

=) prof. smooth val. X "Laurent expansion of #an". (cones e/ a projectie entrodos, et un oue K) Spec IK Imagine: X, X mirror pair, certified by some sort of T-duality. Large exist limit assurption on it: monodromy T: Aut (H. (Xg) Q)) is maximally unpotent, eg. (T-I)"=0 & (T-I)" +0. (mirror to [w]" to , so better have this arrway). typothers: "core HMS" In this setup, say we're given full sub-categories A C F & B c perf & perfect bened category (dy model), s.t. B split-generates porf £. and a grasi-equivalence $A \cong B$. I maybe approachable unit tropical nothers? known only for a few cases so far) Generation - thin: (P-Sherdan). Core HMS => A split-generates F; Shence F is (monoligically) smooth, & rureover & = pof &. (HMS holds). Isomorphism theorem (P.S.)

Cone HMS => open/closed maps

HH.(F) 00 QH (X) 00 HH (F).

are isomorphisms.

Sympose over, $\int_{X} [D]^{n} = \int_{X} \int_{X} (\nabla_{2} \frac{\partial}{\partial x})^{n} \int_{X} .$ I'm quantum colonos (=4 × 2.7. a same is g. (conte of sal's conos) where SZ is normalized so that Floor-Parané durkty is A <-> Some care duality in it wish. I - foundants of amones bob Hus "Thase 2" (w. Shendan & Gardin): Explanes the role of Gaves-Manin connecties /VHS. Use that to show that core HMS => \$\frac{1}{2}\$ is Hodge-theoretrally normalized, & & is in a caronical coordinate. Spec lk $H^n(\check{x}) = W_{2n} > --- > W_0 > 0.$ manostry worsh following want: 752 E W2n-2: (nombratia), & $\left(\nabla_{2\overline{p}q}\right)^{2} \stackrel{\sim}{\searrow} \in W_{2n-4}$, (cononient coordinate),

Expected consequence:

Sherdan proved this for quintic 3-fold, up to an undetermined mirror map.

His than =). the mirror map is plasted one

'S' is standard's normalized

· Condelar et 9/2 come courts follow. Into computing those numbers!

Closes story dates:

morphisms of such late:

$$E \times - (i) \quad H' = HT(\cancel{x}) = \bigoplus_{P^{+}2=\bullet} H^{P}(\Lambda^{2} + \cancel{x}),$$

$$H = H \Omega_{\bullet}(\cancel{x}) = \bigoplus_{P^{-}2=\bullet} H^{P}(\Omega^{2}, \cancel{x}).$$

Marking of is the Rodora -spencer class in $2\frac{d}{dq} \in H^1(TX) \cap H^2$

(ii) (A,i) x a proper A so rategory, i.e. H'(hom (x, x2)) finite din'l.

> closed string data. from Hochschild invaviorts.

$$H^{\circ} = HH^{\circ}(A)$$
 tracking $K = \left[2 \frac{d u}{d z} \right]$ (new to pick the series to define that $A = HH \times (A)$ but now the sindependent of the choice.)

a guai-equiv. As ~> & z => isomorphic close)-string data...

(fix my J7010, + allow idential. of 44. 6 44. compatible).

Modifiéo, global HKR isomorphism give a Donophism Kenkery) HT'(*) = HH'(pof*) Carsheller-Scholeretc. (not in literature: compatible of markings: sence kodaina spence class + [qdi]. $(iii) H' = QH^*(x)$ <a,57 = 5 a*b 11. = OH M+. (X) (save as classical product is this come K = [D].QH'(X) CO> HH'(F) QHM+·(X) = HLI.(F) Prop: (80,00) give a nophish of dosed string data. Least std. part: O'l respects paining <08(a), 08(b)> = < a, b > Muk . Maximal unipokal amodramy of G Hu (NTX)

(Kodairanspercer class

K-S class non-zero. [this is all that's needed)

the, follow from Hodge sheary.

Also: med F has weak CY str., F=>F'[n]. + compatibility w/ OC maps. , not in the orderer, actually). According + Alaszard & smoothness ontenan to say that & is be smooth & generals & , suffices to find 5 6 HHm (A) 5.t. 08(0) = 1 EQH In this antext, DE & EO are "dual" maps. Enough to show that EO(D)" #0regueste for QH2n That follows, since Co; the nap on HH' induced by A = B, and HKR respect ring structures & marketings. & fact 0" \$0 -. => generation, 图. CO([0]") +0. => 00 is injective. ato equi(x) =) 3b s.t. a*b = w". 80(a) * 80(b) = 80(Wh) \$0. Dually, OP is supertime. (F smooth) Muliai paining non-doguente