Miani Miror Symnetry 10	
Abouted I: A Fundarial Point of View on HMS	
D anticononical divisor, $\sigma \in K_{\chi}$ , $\sigma^{-1}(0) = D$	
XID open CY with volume form $SZ = \sigma^{-1}$	
also pick a symplectic form on X, compete of complex stratue?	
Stroninger - You - Zasland (FOOD, Auron, )	
Conj: 3 Stay to-s fibration	
whom B is a monifold of bonday (corres?) -/	
whenous Form > D B is a monifold of bonder (corres?) of  blirs aux   duin p = dian x.  Coding solut be BD DB over DB, we have The forus fibration. (original 572).	
of B. b B) dB over DB, we have I'm four fibration. (original	
2 -> X	
din 1: X=1, D= 30, 00}, There's a projection: 109/2/ E[-00,+00)	
din 1: $X = \mathbb{P}^1$ , $D = \{0, \infty\}$ , there's a projection: $ -0  \ge 1 - \infty$ , $ -0  \ge 1 - \infty$ .	
$D_{0}\{x_{0}^{2}=0\}$ = $\{[0, +\infty)^{2}, [w]^{2}\}$	
Defen this to a fibration $C^2$ (Z <sub>1</sub> u)	
D= {2v= E} //	
K R L 1 m / 1 2 1 2 1 - 2 1	
At (0, E) re have a control point of this fibration.  (Enit. point is (4,2))	
The (0, E) we have a control of full party of	
If you ignore the "Special" part of the notion of the fibration, then you can patch	
these things tragether.  E.s. De (Q: do ar also have Morge - Ampère	
deform (1)	
A: Yes some mice metric to reconstruct.  Deputs on affine 5th.  Anilogue exists, how't been studied at all) 94	54.p)/
1 12 at 11) 94	ij٤,
Antique exists, has there shows all.  Antique exists, has the fally gooderic  with ellip 5 th.	
Stategy due to Gross & Siebert for producir, these fibration from teric degrees their -	

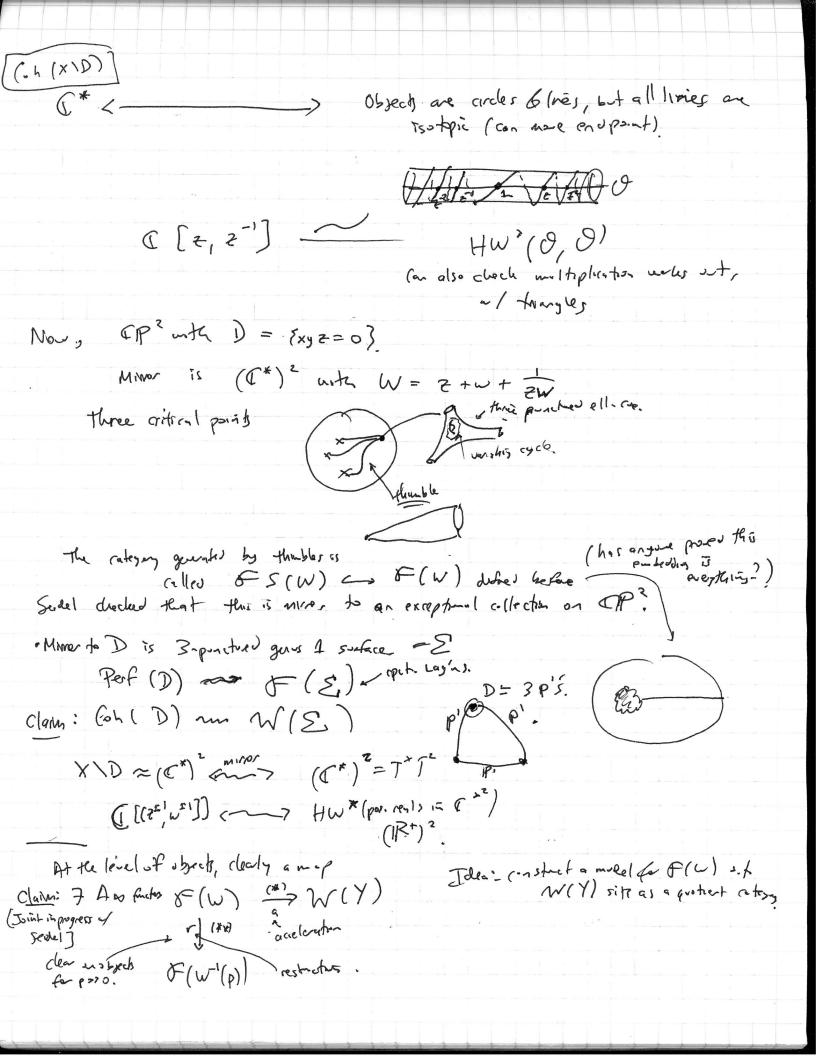
(reel smillabers to get aneti on too bake you (on lott!) E.g., take complete intersection, degra- to hyperplanes. SYZ (a); the mirror of (X,D) is objained by "dualiting" this fibration.  $B = \overline{B} - 3\overline{B}.$   $E-J. \quad \forall r \in F' := \left\{ -(4) | (F_b, R/Z) \right\}.$ B > b = reg. value of fibration together with the superpotential W: Y - 7 C which counts holomorphic conver  $W(b, \nabla) = \sum_{u} e^{-\int_{u}^{u} \omega + i h - l_{p}(2u)}$ Sympt. form

{ The problem of construction wy from the complex structure on X is local.

But, constructing the complex structure on Y is ALOT local may knowledge & sollplane mall-crossing,

(b) (depends on Plan them on other side non-local). 2001. B-side on X A.sile ) Feliava cat- of superpotential. Objects are Lag. in Yuh-se Coh (D) ~ ~ ~ ~ (W'(P)), musquander W = cpet.s-bset stronght line (the st D smooth, it not, need p>> 0.
to anote sense of this I sareful). are non-rompact Lagrangians, becomenly maybe hell-believed at so. Instead of defaning there, let's use what happers in the simplist case ex: 0p 2 em = z + 1 on C\* Trotog classor of lines from -00 to +00) ~ Z. (ch(x)) O(i). hon (0,0(2)). (2)

Gold ) from here, 1- shop.



words about (xx):  worthing  worthing  to objects  Egg  worthing  worthing  to maphisms in g of  and  worthing  to maphisms in g of  and  objects  egg  egg  objects  egg  objects  egg  objects  egg  objects  egg  egg  egg  egg  egg  egg  egg  e	p), ]  a quothent -  sus re-pex  if y-  wange it nicely
How to use these Ass functos	
Assume that Wis a lefelete fibration, fire, all simplates are of Mosse	typets).
	Nice ond. his
FS (W) C. F (W), It's a directed. Also rategory.	
Have this functor FS (W) -> F(w-10))	
Have this funda FS (W) ~> F (w-10))  I marge (FS(W)) = B.	
tave an adport	1
r*: B - Pef (Fs (w)) (in ger	ent, all moders,
( really , D, (M(X) ) - D, (+2(N) /* (B)).	us this
Claim: Perf (W(Y)) ~ Perf (+X(W)/r*(B)	
Strategy: @ Prove that thurstes split greate W(Y) (tunorrow)	
(1) Compare morphysms in IN(Y) & grotient for thindles.	
Mother in M	
Bending a thinsle around many trues. To analy te what he	ppersure to
Bending a thindle around many trues. So analyze what he Germentedly, the Sere funder of FS(W) conserports "bending" once (Germented (parts of the prest be	to Seid. 1
There are the prest to	
There exists a natural transformation from Serve - Id ( convers from counters, coefficies  This is more, to:  D'o(ch(X)) is loc. of D'(ch(X) at D'och D(X)	(sh.+1)
This is more, to:	plates along f.
Do (oh (X/D) is loc. of Do (oh(X) at Do (oh) (X	()

Key: F5=\$1, B=fill mage under.
Ps ~ 7 B.
r*B-A-m.J. r*B:=A*B/A.
3 arangelow - Developments in the BV formalism
So, 1 - Apo -alg. of (evenlood) scale product, so 5 - miltilage
to 25 + 2 {5, 5} = 2  to 25 + 2 {5, 5} = 2  Most position to,  position to,  position to a position to a position for the contract of the cont
asserted of Me the Charles of Me the Charles of Cases in the (Mg, n),  answer guesties of M. k food als she extended mainted Ans-abs.  in H. (Mg, n) to H. (Mg, s). + wither - combin and of a spectification
high gens analyse for they of variables of (he =) (holy st (-f (Y-typ))
Ano-pensos, nc-VHS (HC+CHP)-(H-(Mo,n)-actor) on the
Aos! E trees <-7 nc-BV & Sigaph  Feynman turstan of "modular "year" - Kapranow - Getzler.
dim $M/2$ : out $S(C^{A})$ [solin b; $A(gS) = 0$ ]  Now $M/2$ : $S(C^{A})$ [Solin b; $A(gS) = 0$ ]
5g,i = # (spans g hobon. ares u(i b). compand)  (2, 25, pi) - (h, Li, HLink;)  (2, 25, pi) - (h, Li, HLink;)

Not proved