	V. Gmzburg - Gestahaber - Ratalin - Vilkoviski structures on co-isotropic natusectores
	joint a/ Bavanousky_
·	X smooth alg/a > Y, Z smooth subvarieties
Sheaves (not using)	Tor (Q_{ζ}, Q_{Z}) κ grade) (Tor = Tor χ , etc.) $\xi_{x} + (Q_{\zeta}, Q_{Z})$ Tor a
	gr. module over Ornz
	From dissure X alg. Poisson str., [-,], PEH°(127)
	Y, Z ar constupre, ie. EJy, Jx ScJy
	$\Rightarrow P \rightarrow 0 \text{ in } \Lambda^2 N_{X/Y}$
	Than 1: the for any (smooth) consotropic Y, Z = X,
	Tor (Ox, Oz) has a consider Gerstenhaber algebra structure.
	(2) Ext has a canonical Gerstenhabe mod. structure. over Tor.
	To be honest, have no idea why this is the. Have a good though)
(
	Often: Gerstenhaber algebras are BV-algebras, i.e. there is a
	D: A° → A°-1. diff. operator of order ≤ 2.
	$\Delta^2 = 0$
	Given this, define
	(1 ² =067 Jacobi).
	Ex: (Y, P) Poisson mold.
5	X = YxY = Y=Z diagonal. 127
	Tor, (U, Q) = 1 = 1 Ext (Ox, Q) = 1. Tr

D: D' -> D'-1 D= ipdge + dge Ep "Lie den. w.s.t. P
12=0 => Gest. bracket on Sig "koszul bracket."
Assume X is symplectic, Y, 2 are Lagrangian.
fix a square root:
fix a square root: 1/2 Ly = Ky half-forms, similar for Z.
Thin 2: 3 canonical D: Ext (Ly, Lz) -> Ext (Ly, Lz)
Mohunting for both theorems conor from i) Behrond - Fantali.
2) Kapistin - Rozanski: have the following conjecture:
I trangulated rategory (dy, Lz) stan (live) "near" Ynz) sta
· HH. (E) = Ext (Ly, Lz) Comes (C)
HH. (8) = Tor (Ox, Oz). Gerst. <-> 53
Special case: X = T*Y >> Y= zero section.
$f \in \mathcal{O}(Y), Z = Graph(Jf) c.T*Y.$
Yn Z = contral locus of f.
(in this case Ly, Lz are the same b concol?)
Using Koszal resolution, (dickentia). Tor (Ox, Oz) = H (AT*, B. ndf)
Tor (Ox, Uz) = St (/)Ty, Randt)
6110 21 40; 1-
Ext (0x, 0z) = Il (ATx, 24)
1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
The anti-commutes with Adf, desends to cohomology Theorem does not recommuted as BV-th differential on Tor.
=) todayest de induces a BV-th differential on lor.

Behrond: I natural constantible from on crit(f), e, called the local Euler obstration (MarPherson, 1971). t (take v.c. functor, & dinerson of stalks) (-Ry, dar+ df) de than ople of "D-mad of vanishing cycles". 3- F generalize this by locally patchis, up these Tox models Coheching that it works. This door tweet apply it setting, fails algebraically! (alysmically, a symple form isn't locally exact in any topology). Kapustin - Rozonski define E(Ox, Ograph(df)) = (a tegory of mytax factorizations water for f. I.a. object is a pair. (E+ => E-) rector bundles on Y 80 = f. Id 2-8+ = f. Id If f has an isolated singularity, H'(ATY, Lof) = Coker [TY = Of] = Jarobi (f) (Runk: in general, sto. tricles to put a grading on MF). Problem: MF isn't aprior lord to YnZ (although tree by Orlow) $0 \times 10^{\frac{2}{5}}$ no. deformation of 0×10^{-5} over 0×10^{-2} . $0 \times 10^{\frac{2}{5}} \times 10$

	YZCX coisotropic.
	Let 2 be a line bundle on Y, mis 2 to left modules over C_{X}^{E} . M
	M -11 -2 m7 ME = 2007
	Idea: BV difforg comes form 1st order deform of (X, Z, M) , expanded in power series,
	Extox (Z,M)
	X
	Tor UE (LE, ME)
	Conta resolution heeping track of product is bor resolution of shelle
	prod. en affire subsets. den't know how to de globally)
	Main problem: No professed questization of coiststopics & (can take &, 3 for Cx)
	but magically, although D varies, the bracket doesn't change! (composition
	No canonical A.
	Let Y be a Lagrangian submanifold in a symplectic manifold X, - Ly = Ky.
	Additional data: P spatting (required to be Lagrangian)
	$0 - 7 N_{XX} \xrightarrow{-7} T_{X} \xrightarrow{1} - 7 T_{Y} \xrightarrow{7} 0$
	Topormal budle to Y
	Ham. v.f. targent to Y.
	f = 0x -> df -> p(df) -> 3p(df)
	no quantization of Ly:
de emperatura de carte autoriamento como	$f * l = f \cdot l + \frac{\epsilon}{2} \frac{1}{2} \frac{1}$
(RV	1. A. Dody in the control of 11:111. CIVIVIVI IA. LA CALLO TODA
_	Let YCX a roisotropic subman.
	La line volle on Y land obstaction to quantizate:
	·Pelto(12Tx) -> PERMANAGE HO(Y, NYOTY)
Po	ission process.

Also have $X \in H'(X, T_X)$ near-splitness of $Q \Rightarrow Q^{\varepsilon} \Rightarrow Q$.

And $Q(N_{X/X})$ "At you class of $N_{X/Y}$ " $\in H'(Y, (\varepsilon_{N,0}N) \otimes SZ_{Y}')$.

Prop: Z defers to a left Q^{ε} -module :ff:P. $U[2Id_N \otimes C_i(X) - Q(N)] + X = Q$.

He(Y, NOTY) $\otimes E \times f'(N \otimes T_Y, N) - > H'(Y, N)$ - Symplectic case: X vanishes, etc., eggs becomes: $2c_i(X) = c_i(X_X)$.

Ronk: There's a nice interpretation of abstractions to 2nd order, but have no rdea about any other orders.