Compartified Jacobians & Arc spaces. (P,q)=1, $P,q\geq 1$, $\left(\frac{n}{p}=\int \chi^p=y^n\right)$ Oq = C[Maps (p), Cq)

rigidified (rigidification at or?

See the following: $\varphi^*: \left([t^P, t^q] \longrightarrow Ctt \right)$ f of deg n, $deg(\varphi^*f-f) \stackrel{!}{=} n-2$ " (SLn feature)

Explicit description of $0\frac{a}{p}$ $f^*(t^p) = t^p + \sum_{i=2}^p f_i t^{p-i}$ $f^*(t^q) = t^q + \sum_{i=2}^q f_i t^{q-i}$ (ing homomorphism =)

(Tm

of (q/rig at x)

(Japan) = Catalan

Slogan: 9r H*(Ja)
Slogan: Oa
p JeHac.

defined by Itun]

2 [GK]. degrees of poly grading: f; ltratin: W=(lz,--ep)sog Conj [OY17] Fi Oq = Mi $gr_{i}H^{2r}(J_{a}) \cong gr_{i-j} O_{a}[j]$ 9= PR+1 follows from

Edin Hi (Ja) tie Et 101

proved when 9-pk+1

by 6-Mazin 2

cht (THilbo, 6ch) DY Com cho (elc) for a = pk+1

my result.

din 1 din 2. Vic Z D Theory built by Neiszeiz DM-Curve Gm-autions on M->A (Indil) scaling the Higgs field

t(x,y) = (t-x,y). 67 m 2 x

$$P(X, O(x)) = (I3, y)q$$

$$A = P(X, \Lambda^{i} G_{x}^{2})$$

$$= P(X, \Lambda^{i} G_{x}^{2})$$

$$= G(X, N) iq$$

$$G_{m} : t(P_{i}, \dots, P_{p})$$

$$= (t_{i}, \dots, t_{i}^{p} P_{p})$$

$$= (t_{i}, \dots, t_{i}^{p} P_{p})$$

$$= P_{i}(t_{i}^{+} x, y)$$

$$= P_{i}(t_{i}^{+} x, y)$$

$$G_{m} \leftarrow G_{m} \times G_{m}$$

$$G_{m} \leftarrow G_{m} \times G_{m}$$

- { 2

Gm Contrats. $\Rightarrow A_{\frac{9}{p}} \sqrt{50}$ Mapp-Mix am \[
 \big(0, \tau - 0 \)
 \[
 \big(-\frac{3}{5} \)
 \[
 \] \mathcal{M}_{L} $M_{i} \cong$ $\int \frac{a}{p}$

 \mathcal{M}^{ell}

-7 A ell.

 $H^*(M^{ell}) = H^*(M/A_a/0)$

Ja X Gm

descend from M to the course, moduli space. Generated by Bi that Show of in Cij(Suniv)= 5 Xi Di EH*CX×Mell)

(2,--: Cp, ~) B2,--: BP-

 $R_{5,\xi} = \mathcal{F}_{a,b}$

From this highading, one can buid for H*(Ja) and show

TE = () [OYIb] $C_{k} = \frac{f^{*}(J_{q})}{\inf_{k = 0}} = monomials$ E = 0 $C_{k} = \frac{f^{*}(J_{q})}{\inf_{k = 0}} = \frac{f^{*}$

$$\begin{array}{c}
= R_{S=1} \\
+ \kappa_{Gm}(J_{\psi})
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DMap (#1/4) $\frac{1}{\sqrt{5}}$ froduct h(a) = GASFDeverse filtration $\sqrt{}$

Analogue of H-T, My