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ht 2

M over k

e(y) = 2 mg

G universal deformation

Wqui] = Fo

 $t(x) = x + \frac{b}{n} t_0(x_b) + \frac{b}{l} t_0(x_b)$

$$f(x) = 2 \quad m_{N} \times p^{N}$$

$$m_{N} = \frac{1}{p} \quad m_{N-1} + \frac{1}{p} \quad m_{N-2}$$

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$$m_{N-1} = \frac{1}{p} \quad m_{N-2} + \frac{1}{p} \quad m_{N-2}$$

$$m_{N-1} = \frac{1}{p} \quad m_{N-2} + \frac$$

(w) $\Rightarrow (ww)$ (w)= /m A A(0) - (n+1) Riemann Surtuce

Hodge
Hi(X:SZ') -> Hipr(X)

Hi(X:Z)

de Rham coh. of clim n V = Lie Variets over S Map(V, A') -5 [[x ... Xn]] 52°V = 52'V - - . d 52"V Tros (n) cl(Xhpr din V=1 SAXI - SOYIICX HDR = [M, P)=1 FIDE (N)=S k > 1

Functorial in S TOP (U) TOP (BYV) - S = T ICT ideal with clivided I bom @ = ? Powers 5x = 3x

G = formal OP Yxy Gxa ma ux HDB(a) -> HDB(CXX) we Horra) is primitive : S M' W = M' W + M2' W D(a) = prim in MDR (a)

G = Ga clin b=1 et CXXXP $\frac{2}{2} \rightarrow \frac{2}{(x+2)^2} - \frac{2}{x^2} - \frac{2}{x^2}$ cueff in IW/11/11

| d=0 in H'DR 58 d(\frac{10}{10}) & D(G) $c(\frac{x^p}{D}) \in D(G)$ $\sqrt{\frac{n}{x}}$

DO TT DIP d(xp) $\ell(y) = 2 \frac{\chi^{prn}}{2^n}$ $u^*l(x) = l(x) + l(y)$ 1(x ty) delxi e Da) ol fl(xp) e D(a)

$$\frac{1}{p} \mathcal{L}(x^{p^2}) = \mathcal{L}(x) - x$$

$$\frac{1}{p} \mathcal{L}(x^{p^2})$$

D(CUNIU) busis So(+(x))

W Juill W/p(luill = k |luil) Ga HO'(Gumin) -> D (Gumin) & depends
only
on to denuts on Guniu.

 $H_{\mathcal{X}}(X;X)$ $H_{\mathcal{X}}(X;X)$

0(0) 5/05 depends only on to (p) has divided e childenant powers EM u = û * : HDR(A') MOD (/A'X/AI) Fro benius 60 X - XP $\Rightarrow \phi D(G) \xrightarrow{\Gamma} D(G)$ =1 tak(xbk) - + ; tak+1) t(x) = x 7 " " ta(x)) + 1 ta(x)s) at of \$ \$ factor) (0 - 4,)

Mullin -> mkkuiss UI M = D(CHART) c(L(Y)cl e(xp) FOY SI) -> HOW (X) H'(X:2) has log $Q(Y) = \sum_{i=1}^{N} x^{p^2}$

pence(Holania) -> D(Cania) 1st column of Bi. Q'M FO M ØB1 Q. D(CAMIN) -> D(CAMIN) BFO = FBP 13 = 13(ui) B=== B(u,p) Fo-1

B10= I

B= Im FOR FORM FF FO (N+1)

N-200

This is backward

B' = the mating we started with

=> 15t column of 15' = [ww.]

Period mapping

PCM) = Pm-1 PCM) = Pm-1

B(ui) converses $y(ui) > \frac{1}{p} = r$ B(ui) $y(ui) > \frac{1}{p} = r$ B(ui) $y(ui) > \frac{1}{p} = r$

LTan LT IDN-1 Hi(Aut; Ex) 4 1W/4,-un-cl/14+1 H'(Aut T; W) ri(AnthiEn) (yes n=2/ Ric (LTan) Pic([t] = ? Aut M



Gla(Op) LTOO LTan Charles Ma (Op) A Gla(Op) Ma (Op) A Gla(Op)