THH TC TP even on QRSPentde HH(-/R;Zp),HC,HP In fact, THH (-1,72p), TC-(-1,72p), TP(-1,72p) & Shu (QSyn, Sp) HH(-/R; Zp), HC-, H/ Moreover, they are "hyper-complete sheaver"; Cnot specific to (2Syh) t-structure ou Shr (QSyn, Sp) Shv(QSyn, Sp) =0: FeShv(QSynSp) =0 iff. #A ∈ QSyn XET; (FLA)), j<0. I quasisynfomic coven A-B s.t. x in

"locally connective".

Ty (F(B))

Shu (QSyn, Sp) <0: Je Shv (QSyn, Sp) so if ∀A ∈ QSyn F(A) ESp = 0. Hypercomplete Sheaver: A streat I is hypercomplete it F ~ S lim Ten F Fact (L-1R) [E-1]

(L-174) [E-1] ove hypercomplete in Shr (QSyn, Sp) (Ltap)

THH, TC, TP, TC

are hyporcomplete

Motivic filtration

$$Fi|_{M}^{*} THH(-; \mathbb{Z}_{p}) := T_{72*} THH(-; \mathbb{Z}_{p})$$
 $Fi|_{M}^{*} TC(-; \mathbb{Z}_{p}) := T_{72*} TC(-; \mathbb{Z}_{p})$
 $Fi|_{M}^{*} TP(-; \mathbb{Z}_{p}) := T_{72*} TP(-; \mathbb{Z}_{p})$

$$\hat{\Delta}_{-}\{i\} = gr_{M}^{i} TP(-; 7/p)[-2i]$$
 $N^{2}i \hat{\Delta}_{-}\{i\} = gr_{M}^{i} TC^{-}(-; 7/p)[-2i]$

HPPSS THH (SiZp) 4p THH(SiZp) to

 $\hat{\Delta}_{S}^{S-1} \hat{\Theta} \hat{\Omega}_{S} \hat{\Phi} \hat{N}^{S} \hat{\Omega}_{S}^{S} \hat{\Omega}_{S}^{S}$

SE ON PASSIBLE OF DESERGE

"Sheaf of spectral sequences"? relevant

△-213. Q- invertible ahead

SE ORSPOHDR TC(R;Zp) TP(R;Zp)

THH(S, Zp)+Cp ~ TP(S, Zp)/4(3)

TP (527/2) (6) THU(D:2)

TC (R72p)

(2
THH(S12p)

TC(SiZp)[2] \sim TC(SiZp) \rightarrow HC(SiZp)

MSLES $\Delta_S/_{3} \simeq HC_{o}(SiZ_{p})$

(LDIS/R)

relative de Rham comparison

 $x \in TC_{2n}(S; \mathbb{Z}_p) \quad v \in TC_{-2}(R; \mathbb{Z}_p)$ $(\pi_0 \varphi_p^{hT})(v^n x) = \varphi(\S)^n \sigma^{-n} \cdot (\pi_{2n} \varphi_p^{hT})(x)$

2

 $\nabla^{N}(\nabla_{0}\varphi_{p}^{h})(\nabla^{N}\chi) = \varphi(3)^{N}(\nabla_{2}\varphi_{p}^{h})(\chi)$ $\nabla^{N}\chi \qquad \chi \in \mathcal{N}^{> dn} + \nabla^{-}(S_{1}Z_{p}) = \mathcal{N}^{> N} \hat{\mathcal{O}}_{S_{1}}$

underlan forms?

Geometry???? Rehind this

$$HC_0(S7Zp) \simeq (LSUS/R kp, Hod)$$

Beiliuson t-structure

$$DF(Z) = Fun((N_{>})^{op}, D(Z))$$

$$H_{\text{Beil}}^{\circ}(\text{Fil}^{\prime}M) = (H^{\prime\prime}(gr^{\prime\prime}(M)), \partial)$$

HC= (S/RiZp)

HH (5/R;Zp)

Fil* HC=(S/Ri 74p)

 $T_{2N} = \left(\bigwedge^{n} \left[S/R \right]^{N} \left[-N \right] \right)$

grin HCo(S/R; Zp) = TIZN = (\^n LS/R) p [-n]

Silferred sheat on QSyn site

grando (Labare Squitted) ~ (Labare Squitted)

Fil * gra HC (-/R) 72p)

A a polynomial R-algebra

gran gran Hc (A/RiZp) = (Starr) [-n]
order
order
or poles
level? bright?

Fil * grm Hc (A/R; Zp)

Beilinson t-structure A-QUARP

- _ BMS2 Ch5 Thata
- . Absolute Prismatic cohomology Chb

HKR- fil

- Raskit

Antiean