Cohomology

$$S_0 = \frac{1}{2} S_d$$
 $S_0 \rightarrow S$

$$S_1 = S_0 \times S_0$$

$$S_1 = S_0 \times S_0$$
 $S_1 \xrightarrow{pr_2} S_0$ $(S_1 - S_1 - S_1 - S_0) \times S_1$

$$S_n = S_0 \times - \times S_n$$
 $S_n \stackrel{h+1}{\longrightarrow} S_{n-1}$
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 $S_n \stackrel{h+1}{\longrightarrow} S_n \stackrel{h}{\longrightarrow} S_n$

$$S_n \xrightarrow{q+1} S_{n-1}$$

$$H'(S, \mathbb{Z})$$

$$= H'(Colim R \Gamma'(S, \mathbb{Z}))$$

$$= S. \rightarrow S$$

$$\frac{Th}{R}(R) + cond(S, R) = CCS, R$$

$$+ cond(S, R) = 0 \quad i > 0.$$

=)
$$H_{shuf}^{i}(S,Z) = \begin{cases} shim C(S_{j},Z) & c=0 \\ 0 & i>0 \end{cases}$$

•
$$H_{cond}^{\circ}(S, \mathbb{Z}) = H_{cond}(S, \mathbb{Z}) = H_{cond}(S, \mathbb{Z})$$

$$S = \lim_{n \to \infty} S^{n}$$
 S^{n} finte $S^{n} \to S^{n}$ fite $S^{n} \to S^{n}$ fite $S^{n} \to S^{n}$

For each
$$j$$
, $0 \rightarrow \Gamma(S^{j}, \mathbb{Z}) \rightarrow \Gamma(S$

- General Case (ED, Prof)

Cond(Ab) ~ Sh(CH)

Set= { y cs, VECH}

 $d: Sh (S^{CH}) \rightarrow Sh (S)$ $F \mapsto d_* F$

UCS open da Flu)= lim F(V)

Ox lift exact

placed: R de Z = Z

Stalks: SES

(Rd=21s= Win RT (U, Rd2)) SEW open

> = win RT and (U,Z) SEll spen

= colin RP and (V,Z)

SEV closed

hbh

S. > S shplicial hyperworen

Sn Ep

=> {Sn × V} -> V supplied hypercover

RP word (V, 2) is computed by O-> (S, x, V, 2) -> = exact

Take whim $\longrightarrow D \cap \Gamma(\lambda \times \{s\}, \mathbb{Z}) \to \Gamma(S, \times_s \{s\}, \mathbb{Z}) \longrightarrow exact$

But { Su x { s}} = supplicie! hypercorn of S

=> KP (ond ({53, Z) = Z5

=> R d = 2

A.