Jiaqi Fu

Tuesday 21 January 2025 14:03 Hosewicz Throm & cellulos algebras Them (Hurewicz); (X,A) will top pairs $h_{k}: \pi_{k}(X_{A}) \longrightarrow A_{k}(X, A)$ If Your tite (X,A)=0 for teem then HK(X, A) = 0 for Ken and has in surjective. The (Praties- Mathew); A-> A -> A -> LK I=D K/A I-D SCR K, cpl Notherian Cot Mod 4 com K this adjustion is compractic. let 3 category of spaces , G = gpd D e= 5° ogd love If G -> K[1] fir 2 -> S O-olg in f (2, R; ₩) Hy (S;R·,K) KEAZ of R -> KEAZ of S -> colr

Slagen: too god
$$f: R \rightarrow S$$
 then is a relative allula, do
 $R \rightarrow calim ch (f) \stackrel{-}{\longrightarrow} S$
Then $S = (r^{2})$ middelle lift cpl
 $O := hey h O came E = cof$
 $G = heticum grad (a Ndell)$
 $O(1) = \begin{cases} 0 \in H_{0,0}(O(1), h) \stackrel{-}{\longrightarrow} heth$
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 $O(1) = \begin{cases} 0 = hether (G(1), h) \stackrel{-}{\longrightarrow} hether (G$$

 $\left[-\mathcal{P}, \mathcal{P}\right]_{\mathcal{V}}$ hor (n,y) = { + if nzg Sym novoidal: et (-p)=00. C: G > [-ro, or]z, alutrat connectibity Dag convolution: C&C $C \neq C[q] = inf C(a) + C(b) = a = b \rightarrow g = g$ Of: fix->7 in 5ª if h-c-com if $\#_{q,d}(Y, X; \#) \ge 0$ for $d \le C(q)$. bomologically Et G= Zdinute Et S= hod & C: min Billion t-th lema OL, X' E C = 5 Cof h-c, c' - connected Then XOX' in hi (c+ c') com $(i: X'' \to X' \to c_f - c_m)$ Kh-C-comm then XOK" -> XOX' in h - cocy - com Pf: trimmeth spectral neg. (or X is x' y & > y

y to y fog: XO' -> X'O' is h- max min 1'x = Cg; Cf & Cyi mind Cf + Cy, Cy + Cg (p - com PI: KOY __ KOY K, ØJ Z, K, Ø, A, $Con! \qquad f: X \longrightarrow Y \qquad C_X, C_Y, C_f$ for: Xon -> You is h-mint (x +4 +4 + -1) - com l=5 o is a non- without for come E- cole optical Prop R, SEtly (l) both t-c-command R-55 h-cy-com $(U^{\circ}R)_{\dagger} \longrightarrow Q^{\circ}_{\circ(1)}R$ $(M^{\circ}S)_{+} \longrightarrow Q^{\circ}S^{\circ}$ (o h - (9+6) - cocosticion v tere E= min / C*cf, g+c} Hg, d (S, R) -> Hg, d (Qour S, Qour S) is opination for dered (g)

