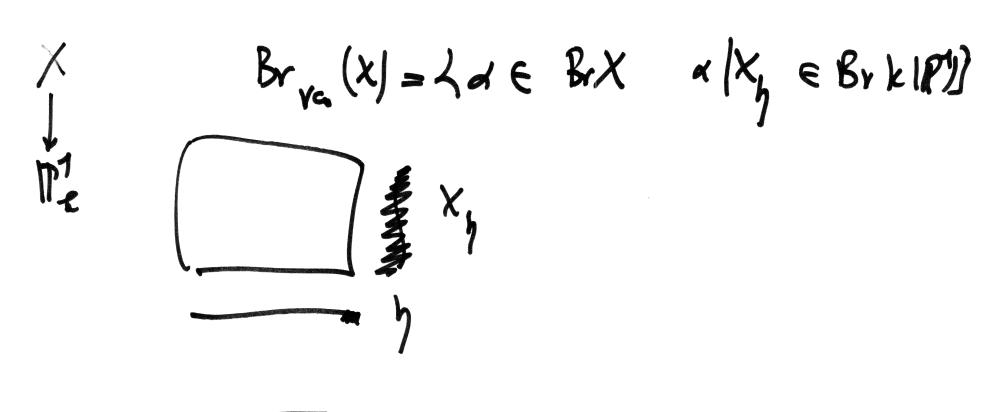
(Ky gam. wil. Thm (x) X -> Pp filmlin Assums: Yme Pe 37 < xm/2/m) component of multiplicity one and Abelian He alg downe of felm) in kly) is abelian splitty Amme Schuzel (H') Hau: IJ X(IP) Brow(x) + 10 Hau 7 to + Poll XE month and Xt (IAE) XX.



Hu = A x mo e P2 \ P1(Q)

Abolian notion

Another than the part of grea - Tao-Ziegles. Con: If John solvity HP+WA

XIAO) ** > X(Q) ** = XVOQ) **X

Example: $N_{K/Q}(x_1w_1 - x_1w_n) = \frac{1}{11}(t - e_i)$ $X_{Q}(x_1w_1 - x_1w_n) = \frac{1}{11}(t - e_i)$ Brk- & Brk, - 10/2

. Keiprouty ary unit is item.

. Hararits formal leams

Confi: X

Assume that X / Relipe) is

a gram chiedly rabinally cancelle > than X(R)+1 - X(IA)BrX ex NK/R(--) - P(1)

Mayar: 1994 / 1997 S= 1. . Yes under contra X X 3. ret. Greated The (heren) & Hillhert Ar C P'(1)

John M rud Her

BrXy/Brx1111)

Hx(R(t), Pic X =) H1(h, Necky)

BrX'=Brk

BrX'm/Brh weed with zer.

Harpaz-Wiltuberg 2013 ger rid of the abelian ephthy woultin After Insheld of o-Brl- & Brl- 19/3-0
Hy ux Patox-Tak chaling for the

The Txxx & M, i. H1(1,T) -> (1,T) -> Hm(H2(1,T), P/2) charly 3 m

Rettie $\hat{T} = Hm_{\tilde{t}-g_1}(T, G_n)$ TxテーG~

$$T = R^{2}_{K/R}G_{m} \qquad Non_{K/R}(2,\omega_{1} \leftarrow 1 \times \omega_{n}) = 1$$

$$H^{2}(1,T) = \frac{1}{2} / Nun_{K}K$$

$$L^{2}/NK^{2} \longrightarrow \mathfrak{B}_{K}^{2}/NK^{2} \longrightarrow h_{m}(H^{2}(1,T), \mathbb{R}/2)$$

$$T_{3} = \frac{1}{2} / N_{m}K^{2} \longrightarrow \mathbb{R}/2$$

$$T_{3} = \frac{1}{2} / N_{m}K^{2} \longrightarrow \mathbb{R}/2$$

H2(R,T) = H2(D,T(R))

H2+(U,T) clesses of venicly

for sovs = principal homogenes s/cs PHS

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Replace theraxi's formal lemma for the Brown ype by a formallen formal lemma for towns under a town

 $V \subset X$ ASSUME HER

T(Ph) BOBYX

(MV) & D(IPe) Y & & BOBYX

Ed (NV) = 0

How I ge H1(1,T) and Har plea

In Kitwished this ye T

I (NV) & Y (IPA) NV IN TO YE J $N_{K/K}(x_1 w_1 + \dots + x_i w_i) = \prod_{i=1}^{d} (t - e_i) \neq 0$ T= (RX,G,) |t - e' = NK/E (x1, m1+ - + x1, m) 10xt-e; = c. NK/6(-)

4=#feld how hypothesis Marjaz-Withhal Kick (HW) (HW) (H) (Hdefue the obsession Harriste bad out 50 IR take any fut at 5 >50. ASSULE gives beal abbins of (x) the very EDO

To to the list of the tripe to the property of t /Q: The oran of Mathicia

Theren Modulo (HW) -> If R= Q unemlitimal thronon