Part 2 (Sevi-Bour Fredo) Port 1 (B6Q etc) Reminder of Exact coples in prote D= @DP.8 D ~ D 8 6 deined couple exact carple aD a'aD S'S S $(0)_{\infty} = 0_{\infty}$ HE

ind

a'=a|an

B=Box' 8'=7 B8=LiE →E En= kodna

for us, red shot on
$$E_1 = 0E^{p_1}0$$
 $D_1 = 0D^{p_2}0$
 $D_1 = 0D^{p_3}0$
 $D_1 = 0D^{p_4}0$
 $D_1 = 0D^{p_5}0$
 $D_1 = 0D^{p_5}0$
 $D_1 = 0D^{p_5}0$
 $E_1 = 0D^{p_5}0$
 $E_2 = 0D^{p_5}0$
 $E_1 = 0D^{p_5}0$
 $E_2 = 0D^{p_5}0$
 $E_3 = 0D^{p_5}0$
 $E_4 = 0D^{p_5}0$
 $E_4 = 0D^{p_5}0$
 $E_5 = 0D^{p_5}0$
 $E_7 = 0D^{$

prochlue: get a connyent SS. (see Simires Appelir C) $E_{r}^{Pro} = \bigoplus_{x \in X(P)} k_{-P} - g(k\omega) \Longrightarrow G_{-P} - g(x)$ littonton on Gn(X) is given by FPGn(Kn(m(x)) - Kn(m(x))) induced by most - most e-J. FPGO(X) = gen by shares 3 .n X whose signart has coding >> D

$$E_{1}^{0,-1} \rightarrow E_{1}^{0,-1}$$

$$E_{1}^{0,-2} \rightarrow E_{1}^{0,-2} \rightarrow E_{1}^{2,-2}$$

Right hand forms give:
$$E_z^{n,-n} = CH^n(x)$$

calcr (Θ kox $\rightarrow \Theta$ Z G $X \in X^{(n-1)}$ $X \in X^{(n-1)}$ $X \in X^{(n-1)}$

anoth while operator consider the graded pieces quaternts of $E_{b',-k}(X)$ Elia - Elia CHP (X) facts knelif

CHP(X) -> FP GO(X)

EPRO -> EPRO, 8-141

FREGOR

PRI GO(X)

EPRO -> EPRO, 8-141

EPRO -> EPRO, 8-141 $f_{p=1}$, $F_{2}^{1,-1} = F_{\infty}^{1,-1} = F_{\infty}^{1} =$

Que more remot Conjectre (Goston) il X is Spr A augmented

A placed of myster and

Her the complex of E, terms Txex(0) - (Kn. (M/2) -> ... & Kn. a(M/2))

xex(0)

xex(0) KN(X) is exact. (tre fr local yet filds by Biller, mresenally Levich ryder ge by bangs) consequence à this: get a flasque resolution at the Zoisho steaf Kn: u -> Kn(u) 0-12 - 3n,0-5

3 mp = Hix Kn(K(X)) i: Spec KG) -X Consequence et Consten conjecté E20(X) = HP(X20, 4K-8) in betrop Es-b= CHb(X) HP(Xzr, KP) K-cohomology grays

Bret dyressiani Somi-Brun Vands
Det A central simple algebra our F is an F-aly A sol. A & F's a Males some n. "Long of matix algebras" closine
i.e. "forms of matix algebras Consider ideals of Mn(F) Month Consider ideals of Mn(F)
exercise eny right ideal I of End(V) is at the from Hom (V,W) < End(V)
some WeV. (W <v3 (w<v3="2" (we="" (whereas.<="" 2="" 3="" =="" bijector="" end(v))="" io,="" td=""></v3>
(colons in W) dim I = (dim W) (dim V)

Absure: fr any Id. aly A, ideals of don d from a subvenety of Gr(d, A) claud RTa(A)

and it A is CSA, consider RIn(A) dy n = Jdim = A is a subvu of Gr(n,A) = Gr(n,n2) Ps-pts: RIn(A)(P3) = Rn(A0,F5)(F3) n.1 = n-divid r. alub & Aspr = Mn(P) 1 dimil shopes of (Fs)n RIN(A) = 2 Pro

Det SB(A) = RIn(A)
"Seuri-Bran" Vanety
Châlelet ~1950