Plan: (Almost) Smish the proof of M-S theorem. 490 fr K2 => MS H90 = tomality of the group VCF) E/F do p extension E=F(Na) MPCR
Gal(E/F) = CO7 K2(E) -> K2(E) N K2(P) beF ひはりこり homology here = V(F) sola,h) Statey: Hao the if Fis is pre-to-p down é norm is syecte from I'm F' Can reduce to Norm sujecte if we can alow le D= (a,b)e e pth mot of 1 that V(F) -> V(F(SB(D))) X = 28(D)

Last the: showed V(F) -> V(F(X)) if H'(X, X2) -> H'(XE, K2) injecte

Goal be boday: H'(X K2) -> H'(XE K2) if CHi(X) CHI(XE).

Will ux BGQ 55:

Will ox Bod 3.  

$$H^{P}(X, 4K-g) \Rightarrow K_{-P}(X)$$

$$K_{1}(X)$$

$$F = 2K \qquad (0 K \cdot (KW)) \Rightarrow K_{D}X$$

OK (KW) = KDX Erpx

K- Heary of SB venetes (in patrolar Injected)
D CSA & P
Theorem (aniller) $K_n(SB(D))$ 12 $K_n(F) \otimes K_n(D) \otimes K_n(D^{\otimes 2}) \otimes \cdots$ $G \times K_n(D^{\otimes r-1})$
Doi = Dop Do or D  itro  itro  How has this is work?  Marita theny  Maturatural idea: Marita theny
Megnestand lands N.
R Mod(s <sup>e</sup> )
M M&N
to anillar's result want $Q_{x} - D^{ec}$ bimodules

recall: X prontyes p-don't right ileals of D. ZIA, D Idin I = p3 at ay. classe look like D==Mp(F)=End(U) I = Hom(V,L) detre el "tastologial" Dx -madle. el at a pt x = X" is x => I = D (cx)  $\mathcal{L}_{x} = \mathcal{L}$ but flow ideals are right D-modules so have an actor of D (or axep) on al on whot. gren a left D-module M, can consider the Ox-mole de M more generally, allois as soft pained de Let Dai made - Ox mades Man War War M

$$E_{i}(K'(X^{E})) = \bigoplus_{b=1}^{3-i} (x-b)_{i} K^{1}(E)$$

$$A = D^{\alpha_c} CSA = E^* \oplus Number OD_0 b-1$$

$$1 \rightarrow SK_1(A) \longrightarrow K_1(A) \longrightarrow F^{+} \longrightarrow 1$$

$$q \longmapsto Nnd(a)$$

Why is M.S intrests (impressit?  $K_2(F)$   $H^2(F, M_e^2)$ 

KM(F)/2 ~ H"(F, Men) former or H'(F, Me) = F'/F')k H"(F, Men-1) would receptent f imments.

KM Remoder: E, J-X

2, = "gen. div i, poles"

[Kn(k(x)) = D Kn-, (k(x)) ---- > D Kolker)

xex(ii)

each mad Ku(x) -> Ku(x))

typethe get a complex!
$K_n(x) \rightarrow K_n(\kappa(x)) \rightarrow \bigoplus_{x \in X^n} K_{n-1}(\kappa(x)) \rightarrow -$
Cersten conj (tru if X is a regular vanty)
Cersten conj (tru 14 11)
11 = 7 miski - lacely exact
1 X is replaced by Cit
in the when X is replaced by dring in the whole in the whol
Hen are have an exact aris. I shows
41en
V = 40iK(k(X)) -> (Dixx Kn-1(k(X)))
$0 \rightarrow 4 \text{m/m} \rightarrow 4 \text{m/m} \times 6 \times $
C(U) complex comm. I Knx.
C(U) ( exact Zoiski locally.
comple 15 cm
Zrok Cohom. I Kn.X.
= Homat I carry

HP(Kn) as dohon of E' tons.