As usual, today we finish the proof of MS. Recall: Ingredients: H90 K2

E/F cyclis of Gal(E/F)= (4)

K2(E) -1 K2(E) NEF K2(F) Claimi exact [Hao => MS K2LF) => H2(F, Mn2)] Lest tre: V(L) = \frac{\text{kr (NEOU/L)}}{\text{in (0-1)}} Showed 12 teches ago) if F preto p closed

(NE/F(E) = Pt +ley V(P) =0 (490 tre)

Shared bot te: if L/F prets ? => V(L)

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Stated: gren SeF* and if E=F(L)(a)

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and SB((a,b)p): Semi-Bran metry

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if we let
$$F_b = f(SB(la,b)e)$$
? classical

them $b \in N_{ExF_b}/F_b$ (ExF_b)

Outlined: Asom $V(F) \longrightarrow V(F_b)$

Conspected "Mortager-Terr" by industribly

re constructed "Mortager-Tear" by industriby
press to all It's at VCFD: 5 5 1 m barrowely . eto of strong Mr. 5

mo reduce to care F pre to of closed 1 NEIP syste to Px

Missy sty: V(F) -> V(Fb) For today X = SB((a,b),) Fo=F(X) K2(E(X)) 0-1 K2(E(X)) N K2(F(X)) K2(E) O-1 K(E) N K2(F)

suppose no K2(E) st. N(w)=0 and $u_{E(X)} = (0-1)(v)$ V & K2(E(x)) W75: u=(0-1)(v)) v' 6K2(E)

V(E) = 0 (fetre agarda) K2(E0E) - K2(E0E) - K2(E) EDE = TIE K2(TE)=T1 K2(E)

as in suppose
$$\sigma(v) - v = u_{ELX}$$

Consider the BGQ 65's

$$H'(X, K_0) \Rightarrow K(X)$$

$$H'(X_E, K_1) \Rightarrow K(X_E)$$

$$V = K_1 + V_1 + V_2 + V_3 + V_4 + V_4 + V_4 + V_5 + V_4 + V_6 +$$

Claim Z: H'(XE, K2)
$$\stackrel{\sim}{\sim}$$
 K2(E)

eg K2(XE)

 $X_{E} = SB((a,b)_{e})_{E}$
 $= SB((a,b)_{e}a_{E}E) = SB(M_{P}(E))$
 $= P_{E}^{P-1}$

1.e.
$$\exists \forall \in K_{2}(E) \leq h$$
. $\forall \in K_{2}(E) = \forall - \forall \in K_{2}(E)$

$$((\sigma - 1) \forall) = (\sigma - 1)(u - v) = (\sigma - 1) =$$