$$\varphi = \sum_{i,j} \alpha_{ji} \gamma_{ij} \quad ; \quad Y = \sum_{i,j} \beta_{ii} \gamma_{ij} \quad ; \quad \partial = \sum_{i,j} \gamma_{ii} \beta_{ij}$$

$$\boxed{Te. \quad t_{ij} \circ \ell_{KR} = \delta_{iR} \theta_{Kj}}$$

$$\boxed{D-60 \quad S=1-n}$$

$$(t_{ij} \circ \ell_{KR}) (e_S) = t_{ij} (\ell_{KR}(\ell_S)) = t_{ij} (\delta_{KS} \delta_R) = \\
= \delta_{KS} \quad t_{ij} (\delta_R) = \delta_{KS} \quad \delta_{iR} \quad \delta_{i} = \delta_{i} \quad \theta_{Kj}$$

$$\boxed{\theta_{pq} (\ell_S) = \delta_{pS} \delta_{q}}$$

$$\boxed{t_{pq} (\ell_S) = \delta_{pS} \delta_{q}}$$

Hapverne opord. un reap. Ba A. IT wer C=BA 305. C-AB Cij = Zarkbiej i airoic...ai. (bij - Spector A = Specy. Hor B - Molins pey or coord - Cije Wpe to im pey hur A c j co. har B Cif e apord.

Tl. & EHm (U,V), & EHm (U,W) Con la -donc un U', from - Logue un V gen 95 - Some kon W. Torden Me (+04) = Mg (+1. Mg (4) Con Eji Eck = Sie Ejk

Charicala na ottemprise a NU 1) Hom (U,V/e NII -) Chaichen ver NII 2) PEKon (U,V), TEKon (V,W), DEHon (W,X) -1 (tot) of = to(tof) (orange man injound.)

(conglar of orange, an icomitorname) 3/ 4 E Hom (U,U) Yoidu=idvoy=4 (idu E Hon(u), idv EHon(U))

5) > CF; & CHam(U, V), + EHam(U, W) =) \(\lambda\((\psi\\phi\)) = (\lambda\(\psi\)) \(\phi\) \(\phi\) = \(\psi\) \((\lambda\(\phi\)) Akanor. J. Co - Comme u EU u copolen Marin Cn. (30 otienos) - Hom (V/ c NI) - HY, B, t E Ham (V) (40+10 & = 40(400) - 49 E Hom V 4. idy - idy of = 1 - 49,0,40 Hom V (9+4)0 = (90) + (40) 4(4+0)= (7+)+(90)

The Market of equation is the encorrywhen $T(x, M_{1}(F)) = T(x) + T(x)$

3ud: Mn (F) = Hom (V)

The A EM n (F) & Dy-Tuna, our A CH n (F);

AA* = A*A = E = E_n

3ud: 3 men, re once A* J, Te & & generalem

(A**= EA**-(A*A)A**= A*(AA**)= A*E=A*) 305. Ares At, Seneram e c A'-osporma 305. PEHON V & odparm, ones 74° EHMU) 9,4° -4° 9=ist Ares III, e equicilen - p-1 Aces en en - Some un V Me (4)=A -(Margury for 109) p-soform (e) A e of parmen A-1 = Me (4-1) (Me: Kan V -> Ms(F) e WM U

"sviroslor" morskegenvor: Me (4,4) - He (4/. Me (4) Me (idv) = E; Congo De: Mr(F)-HonV la apourl. fe = (Me)-1 Cordren 40 Somea Day V- Not way F; Som V= 1 (- m - forman; 30 i=1 n n (not)

3tij: f:= Z tij li; T=(tij) CMn(F)

I-purpage per operage of Some line (come) 3 md. i de corond an T en recorpy, un fi 6 donna 305. T=Me(4), coeyers Perpurailer 10: ₩i=1 my 4(Pi/=fi 03 noveme T= Tet 3 md. e, -en-Sonc un V', i=1_n fi=Ztjilj

T=(tij/- Touln T-odpormen cesfin fon-dome

T=Me(4) 30 4: i=1-10 4(li/=fi T-05p. (=) 4-05p. (=) f, -, fn-800-c · (z) dans - fi = 4(li) u la - la - dorne ·(=) f(+: +(fi/=ei ti (904) (6:1-6: u (404) (6:1-8: =1 404 = 409 = idv => 4-odponno (4-1=4) 300. VEV; ang - Some V; F! di: V= Edici 3! fu CHw (F, V): fu (1) = V

 $M_1^\ell(Y_V) = \begin{pmatrix} \lambda_1 \\ \lambda_n \end{pmatrix} \leftarrow F_{n \times 1}, Y_V = \Phi_1^\ell(\begin{pmatrix} \lambda_1 \\ \lambda_n \end{pmatrix})$ 100019. In $V \in Some - e_1 - e_n$ The VEV; Ging using - Somer; T=Te =) $M_1(\{v\}) = T$. $M_1(\{v\})$ $3\omega 5./Gn$. $V = \sum_{i=1}^{n} J_i e_i = \sum_{i=1}^{n} \mu_i d_i = i$ ($\int_{A_n}^{I} J_i = T \begin{pmatrix} \mu_i \\ \mu_n \end{pmatrix}$ cropping (ω opg. en opened. ω T c notice (ω opg. 305. A=TB I'm T-1A=T-1(TB)=(T-1T)B=EB=B Sure idv EHan V = Han (V,V) | idv(hi) = hi $M_f(idv) = Te^f = T$ idv(ki) = kiD-Com TC T. Mf (4v) = Mf (idv) Mf (4v) = M, (idv) 4v)= = M, ((v) 300. (Tet/-1= Tf Tet= $M_{\xi}(id_{V})$, $T_{\xi}^{e}=M_{\xi}(id_{V})$ Tet $T_{\xi}^{e}=M_{\xi}^{e}(id_{V})$ $M_{\xi}^{e}(id_{V})=M_{\xi}^{e}(id_{V})$ =E