$$|| Ver(X^k) - (I \otimes T) Ver(P^{kT}) ||_{2}^{2}$$

$$Ver(X^k) = \begin{pmatrix} \chi_{11} \\ \chi_{21} \\ \vdots \\ \chi_{TJ^k} \end{pmatrix} I \otimes T = \begin{bmatrix} T \\ T \\ \vdots \\ T \end{bmatrix}$$

$$I \otimes T = \begin{bmatrix} T \\ T \\ \vdots \\ T \end{bmatrix}$$

$$I \otimes T = \begin{bmatrix} T \\ T \\ \vdots \\ T \end{bmatrix}$$

$$I\otimes T \text{ Vec}(P^T)$$

$$= \begin{cases} \sum_{r}^{R} t_{ir} P_{ri} \\ \sum_{r}^{R} t_{jr} P_{ri} \\ \sum_{r}^{R} t_{jr} P_{ri} \end{cases} \qquad i=1 j=1$$

$$\sum_{r}^{R} t_{jr} P_{ri} \qquad i=1 j=1$$

$$\sum_{r}^{R} t_{jr} P_{rj} \qquad i=1 j=1$$

$$\frac{2}{2} \left(\frac{\chi_{ij}}{\chi_{ij}} - \frac{\chi_{ij}}{\chi_{ij}} \right) = \frac{2}{2} \left(\frac{\chi_{ij}}{\chi_{ij}} - \frac{\chi_{ij}}{\chi_{ij$$

 $t_{ii}(x_{ii}-\Sigma_{r}^{R}t_{ir}p_{r_{i}})+t_{2i}(x_{2i}-\Sigma_{r}^{R}t_{gr}p_{r_{i}})+\cdots$ if if

 $+ t_{II} (\chi_{II} - \Sigma_r^R t_{Ir} P_{rI}) = \sum_{i}^{I} [t_{iI} (\chi_{II} - \Sigma_r^R t_{ir} P_{rI})]$

 \hat{P}_{ii} \hat{P}_{2i} \hat{P}_{2i} $\hat{Z}_{i}^{T} \left[t_{i2} \left(\chi_{ii} - \tilde{Z}_{i}^{R} \left(t_{ir} P_{r_{i}} \right) \right] \right]$

51 [tir (z11-5" (tirpri)]

 $\Sigma_{i}^{3}[t_{i_{1}}(\chi_{i_{2}}-\Sigma_{r}^{R}(t_{i_{1}}p_{r_{2}})]$

52 [tir(212-5 (tirpy)]

Σiltir(Xij-Σr(tirprj))

Ziltir (XOJ - Ir (tir Py))

 $t_{11}(x_{11}-x_{11}+t_{11})+t_{11}(x_{11}-$

111 (Z(Z)

Note then this page is the larger needed

D.S. (X & r(-k), \r) - 129 totali Bin V(-R) = DATA(-k) = (Vec(X)) detail ty 211 + ta 121 + ... + ti 21 = 2 tite 2 tix xig1 t10211 + t32221+ -- + 10 t20 221= I' tin Zino 21 Ditir zis tor(j= 1:]) { $\sum_{i=1}^{2} t_{i1} \chi_{i2}$ Drj = Ziterxij Sitir Xi2 Zitir Xij