$$P_{j} = \{e_{j}\} \langle e_{j}\}$$

$$Q_{k} = \{f_{k}\} \langle f_{k}\}$$

$$f_{k} = \lambda_{k} f_{k}$$

$$R_{e} = \{g_{e}\} \langle g_{e}\}$$

$$C_{j_{1}k,\ell} = T_{1}(P_{j}Q_{k}R_{e}) = \langle e_{j_{1}}f_{k}\rangle\langle f_{k_{1}}g_{e}\rangle\langle g_{e_{1}}e_{j_{2}}\rangle$$

$$e_{1}: C_{j_{1}k,\ell} = C_{j_{1}k,\ell} = \langle e_{j_{1}}f_{k}\rangle\langle f_{k_{1}}g_{e_{1}}\rangle\langle g_{i_{1}}g_{e_{2}}\rangle = 1 \langle \mu_{i}e_{j_{1}}\lambda_{k_{1}}\rangle$$

$$\lambda_{k_{1}}f_{k_{1}}$$

$$\lambda_{k_{1}}f_{k_{2}}$$

$$\langle \chi_{\nu,e} | \chi_{\nu,e'} \rangle = N \cdot \text{Tr} \left(P_{\kappa} P_{\nu} Q_{e'} Q_{\ell} \right) = N \cdot \int_{\nu,e'} \left(P_{\kappa} Q_{e} \right)$$

$$= \int_{\nu,\nu'} \delta_{\nu,e'} \delta_{\nu,e$$

$$\longrightarrow \text{HZ} \in \text{M}_{\text{\tiny \tiny L}}(C) = \text{Z} = \sum_{k_{\ell} \in \mathbb{N}}^{n} \langle X_{k_{\ell},\ell} \rangle_{\text{NSL}} X_{k_{\ell}} = \sum_{k_{\ell} \in \mathbb{N}}^{n} \text{Tr}(Q_{\ell}P_{k}Z) P_{k}Q_{\ell}$$

$$\longrightarrow \text{H2} \in \text{M}_{\text{u}}(G) = \text{Z} = \sum_{k_{1}k_{2}}^{\text{w}} \langle X_{k_{1}k_{2}} \rangle_{\text{NSL}} \times_{k_{1}k_{2}} = \sum_{k_{1}k_{2}=1}^{\text{w}} \text{N} \text{Tr}(Q_{k}P_{k}Z)P_{k}Q_{k}$$

$$R_{j} = N \sum_{k,\ell=1}^{\infty} T_{k} \left(Q_{\ell} P_{k} R_{j} \right) P_{k} Q_{\ell} = \left(R_{j} P_{k} Q_{\ell} \right)^{*}$$

All: ha 220 avron

Z egg vangir projection (2) = T((2*2) = 1

Tr (Ri) = ? = 1 (atdateset megselelat)

Tr (Ri) = ? = 1 (j-edit lapon az elembration végyzet i seres = 1)