

$$+ \underbrace{\mathbb{H}_{\infty}}_{\mathbb{H}_{\infty}} \underbrace{\mathbb{K}_r^I}_{\mathbb{K}_r^I} \ni \Psi = \begin{pmatrix} i \\ \Psi_j \end{pmatrix}$$

$$\underbrace{\mathbb{H}_{\infty}}_{\mathbb{H}_{\infty}} \underbrace{\mathbb{K}^I}_{\mathbb{K}^I} \ni \Psi_j$$

$$\overbrace{_{1\mathfrak{b}\cdots p\mathfrak{b}}}^i \Psi_j = \left(\overbrace{_{1\mathfrak{b}\cdots p\mathfrak{b}}}^i \Psi \right)_j$$

$$\overset{i}{\Psi} \boxtimes \overset{j}{\Psi}_k = \overset{i}{\Psi}_j \boxtimes \overset{j}{\Psi}_k - \overset{j}{\Psi}_k \boxtimes \overset{i}{\Psi}_j = \overset{i}{\Psi}_j \boxtimes \overset{j}{\Psi}_k - (-1)^{pq} \overset{i}{\Psi}_j \boxtimes \overset{j}{\Psi}_k$$

$$\overset{i}{\Psi} \boxtimes \overset{j}{\Psi} = \overset{i}{\Psi} \boxtimes \overset{j}{\Psi} - (-1)^{pq} \overset{j}{\Psi} \boxtimes \overset{i}{\Psi}$$

$$\overbrace{_{1\mathfrak{b}\cdots p+q\mathfrak{b}}}^i (\overset{i}{\Psi} \boxtimes \overset{i}{\Psi})_k = \left(\overbrace{_{1\mathfrak{b}\cdots p+q\mathfrak{b}}}^i \Psi \boxtimes \Psi \right)_k = \sum_{\sigma} (-1) \left(\overbrace{_{\sigma_1\mathfrak{b}\cdots \sigma_p\mathfrak{b}}}^i \Psi \right) \times \left(\overbrace{_{\sigma_{p+1}\mathfrak{b}\cdots \sigma_{p+q}\mathfrak{b}}}^j \Psi \right)_k =$$

$$\sum_{\sigma} (-1) \left(\overbrace{_{\sigma_1\mathfrak{b}\cdots \sigma_p\mathfrak{b}}}^i \Psi \right)_j \left(\overbrace{_{\sigma_{p+1}\mathfrak{b}\cdots \sigma_{p+q}\mathfrak{b}}}^j \Psi \right)_k - \left(\overbrace{_{\sigma_{p+1}\mathfrak{b}\cdots \sigma_{p+q}\mathfrak{b}}}^i \Psi \right)_j \left(\overbrace{_{\sigma_1\mathfrak{b}\cdots \sigma_p\mathfrak{b}}}^j \Psi \right)_k =$$

$$\sum_{\sigma} (-1) \overbrace{_{\sigma_1\mathfrak{b}\cdots \sigma_p\mathfrak{b}}}^i \overset{i}{\Psi}_j \overbrace{_{\sigma_{p+1}\mathfrak{b}\cdots \sigma_{p+q}\mathfrak{b}}}^j \overset{j}{\Psi}_k - \overbrace{_{\sigma_1\mathfrak{b}\cdots \sigma_p\mathfrak{b}}}^i \overset{i}{\Psi}_k \overbrace{_{\sigma_{p+1}\mathfrak{b}\cdots \sigma_{p+q}\mathfrak{b}}}^j \overset{i}{\Psi}_j = \overbrace{_{1\mathfrak{b}\cdots p+q\mathfrak{b}}}^i \left(\overset{i}{\Psi}_j \boxtimes \overset{j}{\Psi}_k - \overset{j}{\Psi}_k \boxtimes \overset{i}{\Psi}_j \right)$$

$$\Psi \boxtimes \Psi + (-1)^{pq} \Psi \boxtimes \Psi = 0$$