goldstone

$$a_p \equiv \stackrel{p}{\downarrow} \qquad a_p^{\dagger} \equiv \stackrel{1}{\not p} \qquad b_a \equiv \stackrel{a}{\not p} \qquad b_i \equiv \stackrel{i}{\not p} \qquad b_i^{\dagger} \equiv \stackrel{1}{\not a} \qquad b_i^{\dagger} \equiv \stackrel{1}{\not a}$$
 (1)

$$a_{q_1q_2\cdots q_n}^{p_1p_2\cdots p_n} \equiv \begin{matrix} p_1 & p_2 & p_n \\ \downarrow & \downarrow & \ddots & \downarrow \\ q_1 & q_2 & q_n \end{matrix} \qquad \tilde{a}_{q_1q_2\cdots q_n}^{p_1p_2\cdots p_n} \equiv \begin{matrix} p_1 & p_2 & p_n \\ \downarrow & \downarrow & \ddots & \downarrow \\ q_1 & q_2 & q_n \end{matrix}$$
 (2)

$$\left(\frac{1}{n!}\right)^{2} v_{p_{1}p_{2}\cdots p_{n}}^{q_{1}q_{2}\cdots q_{n}} \tilde{a}_{q_{1}q_{2}\cdots q_{n}}^{p_{1}p_{2}\cdots p_{n}} \equiv \boxed{\boldsymbol{v}} - \boldsymbol{\phi} \tag{3}$$

$$h_p^q a_q^p \equiv \bowtie -$$
 (4)

$$\boxtimes \stackrel{\downarrow}{\uparrow} = \boxtimes \stackrel{\downarrow}{\uparrow} + \boxtimes \stackrel{\downarrow}{\checkmark} + \boxtimes \stackrel{\downarrow}{\downarrow} + \boxtimes \stackrel{\downarrow}{\downarrow}$$

$$\frac{1}{4}\overline{g}_{pq}^{rs}a_{rs}^{pq} =$$

$$\boxtimes - \downarrow + \downarrow \longrightarrow \downarrow = E_0 + \otimes - \downarrow + \downarrow \longrightarrow \downarrow \qquad \qquad E_0 \equiv \boxtimes - \circlearrowleft + \circlearrowleft \longrightarrow \downarrow (10)$$

$$\frac{1 + \sqrt{1}}{8 - \sqrt{1} + \sqrt{1}} = \sqrt{1 + \sqrt{1}} + \sqrt{1 + \sqrt{1 + \sqrt{1}}} + \sqrt{1 + \sqrt{1 + \sqrt{1}}} + \sqrt{1 + \sqrt{$$

