

$$(0-5)\sqrt{\alpha^{*}} \times (1)$$

$$(10-1)\sqrt{\beta^{*}}$$

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$$|Y\rangle \longrightarrow e^{(\theta-\eta)} \sqrt{\frac{p^*}{p}}$$

$$\alpha e | X \rangle + \beta e^{i\eta} | Y \rangle \longrightarrow e \left( |\alpha| | X \rangle + |\beta| | Y \rangle \right)$$

$$\beta^* e^i \langle X \rangle = \alpha^* e^i \langle Y \rangle \longrightarrow e^i \sqrt{\frac{\alpha^*}{\alpha}} \frac{\beta^*}{\beta} \left( |\beta| |X \rangle - |\alpha| |Y \rangle \right)$$

$$N \dim + M \dim \to NM \dim \cdot NM - 1 \neq (N^2 - 1) + (N^2 - 1)$$

$$A_{\dot{V}} = \langle i|A|j \rangle \qquad C_{mp,nv} = \langle m|Q\langle p|C|n\rangle \langle p|V \rangle$$

$$(\hat{A}\otimes 1 + 1\otimes \hat{B})(u\otimes v))_{m\mu} = \sum_{n\nu} (A_{mn}\delta_{\mu\nu} + \delta_{mn}B_{\mu\nu})u_{n}v_{\nu}$$

