$$\frac{14}{\sqrt{2}} = \frac{1}{\sqrt{2}} \left(\frac{10}{10} + \frac{11}{11} \right)$$

$$\frac{\partial}{\partial \theta_{0}} | \psi' \rangle = \frac{\partial}{\partial \theta_{0}} | \psi \rangle \\
= -\frac{1}{2} \int_{\mathcal{L}} | \psi \rangle | \psi \rangle \\
= -\frac{1}{2} \int_{\mathcal{L}} | \psi \rangle | \psi \rangle \\
= \frac{1}{2} | \omega | (\theta_{0}, \theta_{1}) | \psi \rangle \\
= \frac{1}{2} | \omega | (\theta_{0}, \theta_{1}) | \psi \rangle \\
= \frac{1}{2} | \omega | (\theta_{0}, \theta_{1}) | \psi \rangle \\
= \frac{1}{2} | \omega | (\theta_{0}, \theta_{1}) | \psi \rangle \\
= \frac{1}{2} | \omega | (\theta_{0}, \theta_{1}) | \psi \rangle \\
= \frac{1}{2} | \omega | (\theta_{0}, \theta_{1}) | \psi \rangle \\
= \frac{1}{2} | \omega | (\theta_{0}, \theta_{1}) | \psi \rangle \\
= \frac{1}{2} | \omega | (\theta_{0}, \theta_{1}) | \psi \rangle$$

QFIM

$$F_{00} = 4R(204 | 9_{00}4) - (44 | 3_{00}4) | 4)$$

$$= 4Re \left[\frac{1}{4} (4 | 1)^{4} (3_{00}4) | 1 (3_{00}40) | 4) \right]$$

$$= 4Re \left[\frac{1}{4} - \frac{1}{4} | 4 | \frac{1}{4} |$$

Similarly