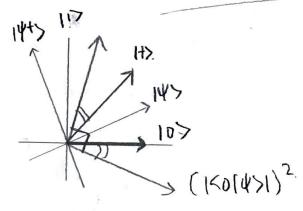
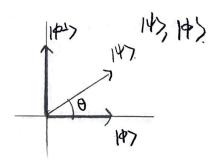
QINTRO-705 22. Feb. 23





 $K\phi 14 \times = Cos\theta$ Angle = $Arctan(K\phi 14 \times 1)$

· OS Angle (P,6) with equality if P=8

· Angle (P, 6) = Angle (6, P)

-Angle (P, T) < Angle (P, 6) + Angle (6.7)

0 < Angle (P.6) < T/2

1.
$$(40|41) = (++|\frac{1}{12}(1+)|1)-|->|0>)$$

= $\frac{1}{12}$ = $\frac{1}{12}(1+\frac{1}{12}+0+\frac{1}{12})$

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

$$-\left(\frac{r_2}{r_2} - \frac{r_3}{s}\right)/2 = \frac{\pi}{12}$$

$$|\langle \Phi_0 | \{ \delta \rangle |^2 = |\langle \phi_0 \rangle^2 \left(\frac{\pi}{12} \right) |$$

$$|\langle \phi_1 | \psi_1 \rangle| = \cos^2\left(\frac{\pi}{12}\right)$$

1,
$$x_1 = x_2 = 0$$
, $x_3 = x_4 = 1$

2, $x_1 = x_3 = 0$
 $x_1 = x_3 = 0$
 $x_2 = x_4 = 0$
 $x_1 = x_3 = 1$
 $x_2 = x_4 = 0$
 $x_1 = x_3 = 1$
 $x_2 = x_4 = 0$
 $x_1 = x_4 = 0$
 $x_2 = x_4 = 0$
 $x_1 = x_4 = 0$
 $x_2 = x_4 = 0$

$$\chi_{1} = \chi_{2}$$

$$\chi_{3} = \chi_{4}$$

$$= \frac{1}{2}(-1)^{\chi_{1}}|00\rangle + (-1)^{\chi_{1}}|01\rangle + (-1)^{\chi_{3}}|10\rangle + (-1)^{\chi_{3}}|11\rangle$$

$$= \frac{1}{2}\left[|0\rangle\left((-1)^{\chi_{1}}(|07+|1\rangle)\right) + |1\rangle\left((-1)^{\chi_{3}}(|0\rangle + |1\rangle)\right)\right]$$

$$= \frac{1}{\sqrt{2}}\left[(-1)^{\chi_{1}}|0\rangle + (-1)^{\chi_{3}}|1\rangle + (-1)^{\chi_{$$

| d1 = x3 21 = x4 | 21 = x4

1.
$$\cos(\alpha + \beta) \ge \frac{1}{2}(2\cos^2(\alpha) - 1 + 2\cos^2(\beta) - 1)$$

$$(=) loc x=2x, y=2\beta$$

$$cos(\frac{2\alpha+2\beta}{2}) \ge \frac{1}{2} (cos(2x)+cos(2\beta))$$

$$\frac{1}{2}(F^{2}(\ell, S) + \frac{1}{2}F^{2}(SP)) = \frac{1}{2}(Cos^{2}(x) + Cos^{2}(\beta))$$

$$\leq \frac{1}{2}\cos(\alpha+\beta)+1$$

Angle(P,8) + Angle(8,6)
$$\geq$$
 Angle(P,6) $F(P, Z) = cos(Angle(P, S))$

$$Cos(x+\beta) \leq Cos(x)$$

$$F(\xi, \ell) = Eos(Anyle(\xi, \sigma))$$

 $F(\ell, \delta) = Eos(Anyle(\ell, \sigma))$
 $F(\ell, \delta) = Eos(Anyle(\ell, \sigma))$
 $F(\ell, \delta) = Eos(Anyle(\ell, \sigma))$