QUANTUM DISTANCE - bosed CLASSFIER $|a\rangle = |o\rangle$ $|a\rangle$ $|a\rangle$ CIME He 1 (10000) + (0001) Hm > 1 (1/2 (10000> + 10010>)+1/2 (10001>+ 10011>)) -> 1 (10000) + 10010) + 1001) + 10011) Let CRy (4.304) = 147 -> 1/2 (10000> + 10010> + 10401> + 10411) Xe = = (100017 + 100117 + 10-4007 + 10-410>) Toppour 1 (100017+10111)+104007+10410>) Xm > 1/2 (10011) + (0101) + (0 1/20) + (0 1/00) Let ccRy (1.325) = 10) CCRy 1> = (10\$11)+(01017+(0410)+(04007)

CNOT > 1 (11 \$11) + |0101) + (1 410) + |0400>)

$$\frac{1}{2} \left(\frac{1}{11} \right) \left(\frac{1}{91} \right) + \frac{1}{90} \right) + \frac{1}{90} \left(\frac{1}{11} \right) + \frac{1}{90} \right)$$

$$\frac{1}{2} \left(\frac{1}{12} \right) \left(\frac{1}{12} \left(\frac{1}{190} \right) - \frac{1}{91} \right) + \frac{1}{12} \left(\frac{1}{190} \right) + \frac{1}{12} \left(\frac{1}{12} \right) \left(\frac{$$