P: (5 P; (x; ) Kx; ( 14) = × 107 + \$11) Para Sleto Pure Stets ) Pare puentem Alet (quisits) we transmit BUB Alice guloits in home Meli Noise or Envisormment these pure Pulots usually charges phareflip 2mm Mu puberolety Polopel -> Alice 11 1-P 9t is Kemaining (+) are represent by denity motives. P= 14> <41 is defined by Outer 100 duct P= { Pi | ai > < ai | Pa 1-> <-1 + P, 1+> <+) = 1 1-7 <-1 +3 +> <+1

$$= \frac{1}{4} \cdot \frac{1}{12} \left[ \frac{1}{12} \right] \cdot \frac{1}$$

$$=\frac{1}{8}\left(-\frac{1}{1}\right)+\frac{3}{8}\left[\frac{1}{1}\right]$$

$$= \left( \frac{4}{8} - \frac{1}{8} + \frac{3}{8} - \frac{1}{8} + \frac{3}{8} - \frac{1}{8} + \frac{3}{8} - \frac{1}{4} -$$

$$pece(p^2) = \frac{5}{16} + \frac{5}{16}$$

$$= \frac{10}{16} < 1$$

Rahstred in both Normalization 14> and P x107+B11> (φ) = Meanwener | <0|ψ>) = | X | L 1<0/4>1 = (<0/4>) (<0/4>)  $= \left( \langle 0|\Psi\rangle \langle \Psi|0\rangle \right) = \left( \langle 0|P|0\rangle \right)$ 147 = x | 07+ B | 1) P = [x] [x + B+] Virtary objects has  $|\varphi\rangle = |\chi|_{07} + |\beta|_{17} = |\chi|_{0} = |\chi|_{0}$  $|AD=U|\Psi \rangle = \begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix} \begin{pmatrix} x \\ \beta \end{pmatrix} = \begin{pmatrix} x \\ -\beta \end{pmatrix} = x |0\gamma - \beta|1\rangle$  $P = \left( \begin{array}{c} x \\ -\beta \end{array} \right) \left( \begin{array}{c} x \\ -\beta \end{array} \right)$ 

1 0 | [xxt xpt] [0 -1] = [xy ] [xt xpt] [0 -1] UPU -( Parhal Measurement 1 (100) + (11) In (1007+111) a rect | | V | = | (V V) 1/>= = [[] [=[10]=[0] くいー」に

$$|\Psi\rangle = \frac{1}{2}|\omega\rangle - \frac{1}{2}|\omega\rangle + \frac{1}{2}|\omega\rangle$$