(Partial Measurement) (Feb 6, 2024) 7 quentum system with noquiosla try Meanine n-1 puts to a or I quoit -> Partial Measurement & Descripte of $|\Psi\rangle = \frac{1}{2}|\infty\rangle - \frac{1}{12}|10\rangle + \frac{1}{12}|11\rangle = \frac{1}{12}|10\rangle =$ 1 2 0 1 2 0 -1 2 (1) - (1) + (1) = / 4 + 1 = 1

meanure & output is o what will be the stetus of se cound publit $V = \frac{1}{2} | \omega \rangle = \begin{bmatrix} \frac{1}{2} \\ 0 \\ 0 \end{bmatrix}$ 1 100> X UIV> = \frac{1}{2} = \loo \rightarrow 2nd publishe in to> $|\psi\rangle = \frac{1}{2} |\omega\rangle - \frac{1}{2} |10\rangle + \frac{1}{15} |11\rangle$ 14,>= -1/10>+1/11> - 1 110>+1 111> = [0 | - 1/2 | $\frac{-\frac{1}{2}}{\sqrt{3}} = \frac{-\frac{1}{2}}{\sqrt{3}} \times \frac{2}{\sqrt{3}} \times \frac{$

Entampled or Setasphole States)

$$\frac{1}{L}(100) + |11\rangle \qquad \frac{1}{L}(100) + |11\rangle$$

$$\frac{1}{L}(100) + |11\rangle \qquad \frac{1}{L}(100) + |11\rangle$$

$$\frac{1}{L}(100) + |11\rangle \qquad = \frac{1}{L}(100) + |10\rangle$$

$$\frac{1}{L}(100) + |10\rangle \qquad = \frac{1}{L}(100) + |10\rangle$$

$$\frac{1}{L}(100) + |10\rangle$$

$$\frac{1}{L}$$

