## Pojene stavy v nixuzel particle fraily

Termodzuarnilea

 $(V_{IP_{I}}T)$ 

Mielanila

90, Pi (qi) i=1,..., N

Opsiha

polarisaela reletor

Hamiltonoy romice

pi = - Oft i = 1,..., N

ornaeline  $\vec{p} = \begin{pmatrix} p_1 \\ q_1 \\ p_2 \\ q_2 \\ \vdots \\ p_n \end{pmatrix}$ 

$$\frac{\partial}{\partial t} \vec{\varphi} = \mathcal{H}(\vec{\varphi})$$

V hvanton mechanico - oghradue l'ensarue opera loy

 $Q(\vec{q} t \vec{r}) = Q(\vec{p}) + Q(\vec{p})$ 

Kvantra mechanila - jednodersi

Linearui harmonich oscelator -> linearui operator na p. s.

Popis folarisace 
$$v$$
 optice
$$V = \frac{1}{\sqrt{E_{x}^{02} + E_{y}^{02}}} \left( \frac{E_{x}^{0} e^{-i\delta_{x}}}{E_{y}^{0} e^{-i\delta_{y}}} \right)$$

$$V = \frac{1}{\sqrt{E_{x}^{02} + E_{y}^{02}}} \left( \frac{E_{x}^{0} e^{-i\delta_{x}}}{E_{y}^{0} e^{-i\delta_{y}}} \right)$$

$$V = \frac{1}{\sqrt{E_{x}^{02} + E_{y}^{02}}} \left( \frac{E_{x}^{0} e^{-i\delta_{x}}}{E_{y}^{0} e^{-i\delta_{y}}} \right)$$

$$V = \frac{1}{\sqrt{E_{x}^{02} + E_{y}^{02}}} \left( \frac{E_{x}^{0} e^{-i\delta_{x}}}{E_{y}^{0} e^{-i\delta_{y}}} \right)$$

$$V = \frac{1}{\sqrt{E_{x}^{02} + E_{y}^{02}}} \left( \frac{E_{x}^{0} e^{-i\delta_{x}}}{E_{y}^{0} e^{-i\delta_{y}}} \right)$$

$$V = \frac{1}{\sqrt{E_{x}^{02} + E_{y}^{02}}} \left( \frac{E_{x}^{0} e^{-i\delta_{x}}}{E_{y}^{0} e^{-i\delta_{y}}} \right)$$

$$V = \frac{1}{\sqrt{E_{x}^{02} + E_{y}^{02}}} \left( \frac{E_{x}^{0} e^{-i\delta_{y}}}{E_{y}^{0} e^{-i\delta_{y}}} \right)$$

$$V = \frac{1}{\sqrt{E_{x}^{02} + E_{y}^{02}}} \left( \frac{E_{x}^{0} e^{-i\delta_{y}}}{E_{y}^{0} e^{-i\delta_{y}}} \right)$$

$$V = \frac{1}{\sqrt{E_{x}^{02} + E_{y}^{02}}} \left( \frac{E_{x}^{0} e^{-i\delta_{y}}}{E_{y}^{0} e^{-i\delta_{y}}} \right)$$

$$V = \frac{1}{\sqrt{E_{x}^{02} + E_{y}^{02}}} \left( \frac{E_{x}^{0} e^{-i\delta_{y}}}{E_{y}^{0} e^{-i\delta_{y}}} \right)$$

$$V = \frac{1}{\sqrt{E_{x}^{02} + E_{y}^{02}}} \left( \frac{E_{x}^{0} e^{-i\delta_{y}}}{E_{y}^{0} e^{-i\delta_{y}}} \right)$$

$$V = \frac{1}{\sqrt{E_{x}^{0} + E_{y}^{0}}} \left( \frac{E_{x}^{0} e^{-i\delta_{y}}}{E_{y}^{0} e^{-i\delta_{y}}} \right)$$

$$V = \frac{1}{\sqrt{E_{x}^{0} + E_{y}^{0}}} \left( \frac{E_{y}^{0} e^{-i\delta_{y}}}{E_{y}^{0} e^{-i\delta_{y}}} \right)$$

$$V = \frac{1}{\sqrt{E_{x}^{0} + E_{y}^{0} e^{-i\delta_{y}}}} \left( \frac{E_{y}^{0} e^{-i\delta_{y}}}{E_{y}^{0} e^{-i\delta_{y}}} \right)$$

$$V = \frac{1}{\sqrt{E_{x}^{0} + E_{y}^{0} e^{-i\delta_{y}}}} \left( \frac{E_{y}^{0} e^{-i\delta_{y}}}{E_{y}^{0} e^{-i\delta_{y}}} \right)$$

$$V = \frac{1}{\sqrt{E_{x}^{0} + E_{y}^{0} e^{-i\delta_{y}}}} \left( \frac{E_{y}^{0} e^{-i\delta_{y}}}{E_{y}^{0} e^{-i\delta_{y}}} \right)$$

$$V = \frac{1}{\sqrt{E_{x}^{0} + E_{y}^{0} e^{-i\delta_{y}}}} \left( \frac{E_{y}^{0} e^{-i\delta_{y}}}{E_{y}^{0} e^{-i\delta_{y}}} \right)$$

$$T = \begin{pmatrix} a & b \\ c & d \end{pmatrix}$$

$$Y = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$
  $Y = \begin{pmatrix} 0 \\ 1 \end{pmatrix}$   $Y = \begin{pmatrix} \cos \varphi \\ \sin \varphi \end{pmatrix}$ 

Kompleme prépad: étrévlince desticles

$$T = \begin{pmatrix} 1 & 0 \\ 0 - i \end{pmatrix} \quad V = \frac{1}{12} \begin{pmatrix} 1 \\ 1 \end{pmatrix}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ 1 \end{pmatrix}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ 0 - i \end{pmatrix} \quad V = \frac{1}{12} \begin{pmatrix} 1 \\ 1 \end{pmatrix}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

$$V = \frac{1}{12} \begin{pmatrix} 1 \\ -i \end{pmatrix} \quad \text{hullione}$$

Oripanme Nov - transforméene - merène