## Princip superparice

Mude-li se nystein nachaest se stænd  $|V_1\rangle = |V_2\rangle$ mude to stænd  $|V_2\rangle = |V_2\rangle + |V_2\rangle$ lide  $|V_1\rangle = |V_2\rangle + |V_2\rangle + |V_2\rangle$ 

$$\frac{\int \hat{c} \cdot \hat{c} \cdot \hat{c} \cdot dc}{\langle \vec{F}_{1} | \vec{V}_{1} \rangle} = c_{1} \frac{1}{\sqrt{2\pi t}} e^{\frac{i}{\hbar} \vec{F}_{1} \cdot \vec{F}_{1}} + c_{2} \frac{1}{\sqrt{2\pi t}} e^{\frac{i}{\hbar} \vec{F}_{2} \cdot \vec{F}_{1}} \\
\langle \vec{F}_{1} | \vec{V}_{1} \rangle = c_{1} \frac{1}{\sqrt{2\pi t}} e^{\frac{i}{\hbar} \vec{F}_{1} \cdot \vec{V}_{1}} e^{\frac{i}{\hbar} \vec{F}_{1} \cdot \vec{V}_{2}} + c_{2} \frac{1}{2\pi t} e^{\frac{i}{\hbar} \vec{F}_{1} \cdot \vec{F}_{2}} \\
e^{P_{1}} \frac{P_{2}}{e^{\frac{i}{\hbar} \vec{F}_{2} \cdot \vec{V}_{1}}} + e^{\frac{i}{\hbar} \vec{F}_{2} \cdot \vec{V}_{1}} e^{\frac{i}{\hbar} \vec{F}_{1} \cdot \vec{V}_{2}} + e^{\frac{i}{\hbar} \vec{F}_{2} \cdot \vec{V}_{1}} e^{\frac{i}{\hbar} \vec{F}_{2} \cdot \vec{V}_{1}} \\
e^{P_{1}} \frac{P_{2}}{e^{\frac{i}{\hbar} \vec{F}_{2} \cdot \vec{V}_{1}}} e^{\frac{i}{\hbar} \vec{F}_{2} \cdot \vec{V}_{1}} e^{\frac{i}{\hbar} \vec{F}_{2} \cdot \vec{V}_{2}} e^{\frac{i$$

Ovousteibinory experiment  $\frac{1}{\sqrt{2}} = \frac{\vec{\xi_1} \cdot \vec{r}}{\vec{r}}$   $\frac{1}{\sqrt{2}} = \frac{\vec{\xi_2} \cdot \vec{r}}{\vec{r}}$   $\frac{1}{\sqrt{2}} = \sum_{n=1}^{\infty} \binom{n}{n}$   $\frac{1}{\sqrt{2}} = \sum_{n=1}^{\infty} \binom{n}{n}$ 

$$\begin{aligned} |\Psi\rangle &= \frac{1}{V_{L}} \Big( |Y_{q}\rangle + |Y_{2}\rangle \Big) \\ P_{\alpha} &= |\langle u(\Psi\rangle)|^{2} = \frac{1}{L} \left( \langle Y_{q}| + \langle Y_{L}| \rangle | u_{q} \rangle \langle u_{1}| \langle Y_{q}\rangle + |Y_{2}\rangle \right) \\ &= \frac{1}{L} \left( \langle Y_{q}| u_{2} \rangle \langle u_{1}| \langle Y_{q}\rangle + |Y_{L}| u_{2} \rangle \langle u_{1}| \langle Y_{q}\rangle \right) \\ &+ \langle Y_{q}| u_{2} \langle u_{1}| \langle Y_{2}\rangle + \langle Y_{L}| u_{2} \rangle \langle u_{1}| \langle Y_{q}\rangle \right) \\ &= \frac{1}{L} \left( P_{1}^{(u)} + P_{2}^{(u)} + 2Re c_{m}^{(u)} c_{m}^{(u)} \right) \\ &= \frac{1}{L} \left( P_{1}^{(u)} + P_{2}^{(u)} + 2Re c_{m}^{(u)} c_{m}^{(u)} \right) \\ &= \frac{1}{L} \left( P_{1}^{(u)} + P_{2}^{(u)} + 2Re c_{m}^{(u)} c_{m}^{(u)} \right) \\ &= \frac{1}{L} \left( P_{1}^{(u)} + P_{2}^{(u)} + 2Re c_{m}^{(u)} c_{m}^{(u)} \right) \\ &= \frac{1}{L} \left( P_{1}^{(u)} + P_{2}^{(u)} + 2Re c_{m}^{(u)} c_{m}^{(u)} \right) \\ &= \frac{1}{L} \left( P_{1}^{(u)} + P_{2}^{(u)} + 2Re c_{m}^{(u)} c_{m}^{(u)} \right) \\ &= \frac{1}{L} \left( P_{1}^{(u)} + P_{2}^{(u)} + 2Re c_{m}^{(u)} c_{m}^{(u)} \right) \\ &= \frac{1}{L} \left( P_{1}^{(u)} + P_{2}^{(u)} + 2Re c_{m}^{(u)} c_{m}^{(u)} \right) \\ &= \frac{1}{L} \left( P_{1}^{(u)} + P_{2}^{(u)} + 2Re c_{m}^{(u)} c_{m}^{(u)} \right) \\ &= \frac{1}{L} \left( P_{1}^{(u)} + P_{2}^{(u)} + 2Re c_{m}^{(u)} c_{m}^{(u)} \right) \\ &= \frac{1}{L} \left( P_{1}^{(u)} + P_{2}^{(u)} + 2Re c_{m}^{(u)} c_{m}^{(u)} \right) \\ &= \frac{1}{L} \left( P_{1}^{(u)} + P_{2}^{(u)} + 2Re c_{m}^{(u)} c_{m}^{(u)} \right) \\ &= \frac{1}{L} \left( P_{1}^{(u)} + P_{2}^{(u)} + 2Re c_{m}^{(u)} c_{m}^{(u)} \right) \\ &= \frac{1}{L} \left( P_{1}^{(u)} + P_{2}^{(u)} + 2Re c_{m}^{(u)} c_{m}^{(u)} \right) \\ &= \frac{1}{L} \left( P_{1}^{(u)} + P_{2}^{(u)} + 2Re c_{m}^{(u)} c_{m}^{(u)} \right) \\ &= \frac{1}{L} \left( P_{1}^{(u)} + P_{2}^{(u)} + 2Re c_{m}^{(u)} c_{m}^{(u)} \right) \\ &= \frac{1}{L} \left( P_{1}^{(u)} + P_{2}^{(u)} + 2Re c_{m}^{(u)} c_{m}^{(u)} \right) \\ &= \frac{1}{L} \left( P_{1}^{(u)} + P_{2}^{(u)} + 2Re c_{m}^{(u)} c_{m}^{(u)} \right) \\ &= \frac{1}{L} \left( P_{1}^{(u)} + P_{2}^{(u)} + 2Re c_{m}^{(u)} c_{m}^{(u)} \right) \\ &= \frac{1}{L} \left( P_{1}^{(u)} + P_{2}^{(u)} + 2Re c_{m}^{(u)} c_{m}^{(u)} \right) \\ &= \frac{1}{L} \left( P_{1}^{(u)} + P_{2}^{(u)} + 2Re c_{m}^{(u)} c_{m}^{(u)} \right) \\ &= \frac{1}{L} \left( P_{1}^{(u)} + P_{2}^{(u)} + 2Re c_{m}^{(u)} c_{m}^{(u)} \right) \\ &= \frac{1}{L} \left( P_{1}^{(u)} + P_{2}^{(u)} + 2Re c_{m}^{(u)} \right) \\ &= \frac{1}{L} \left( P$$