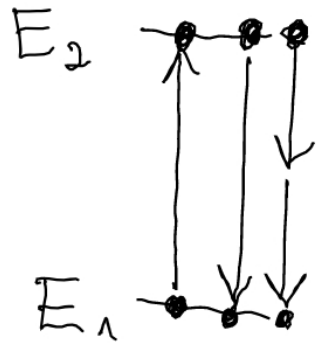
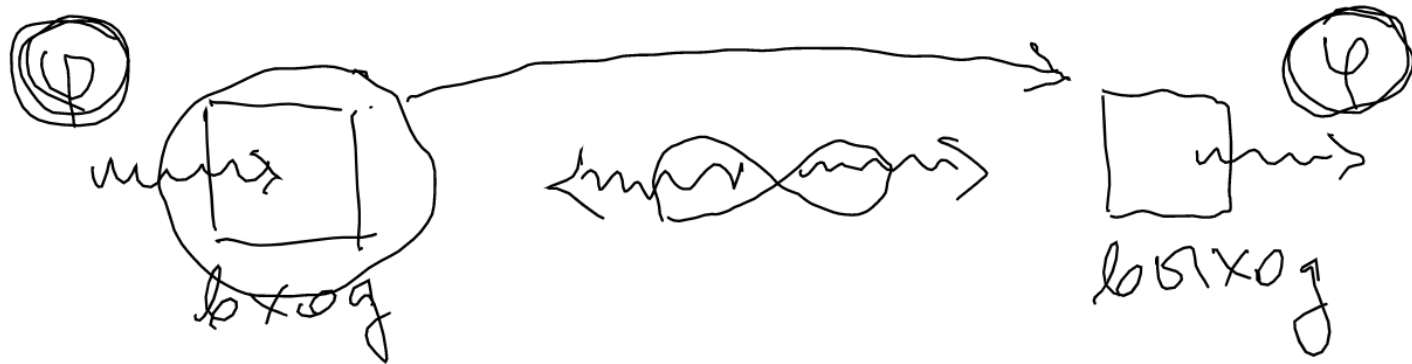
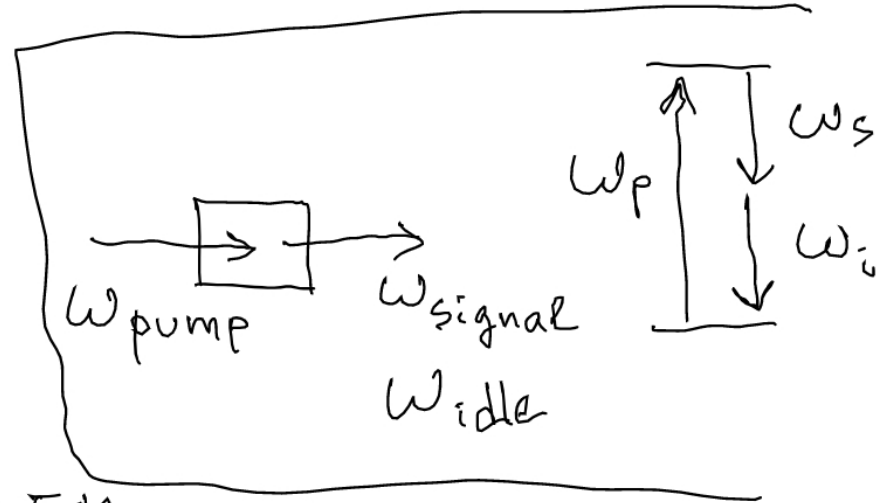
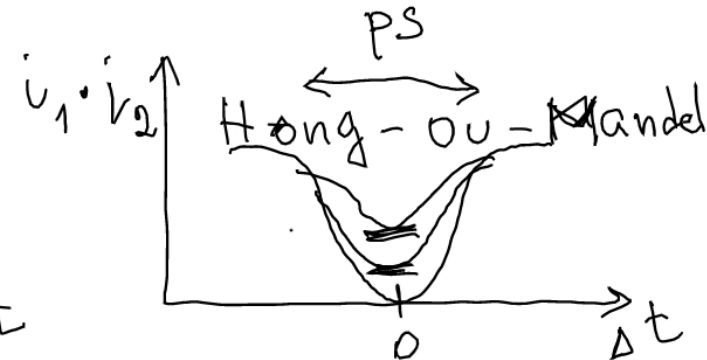
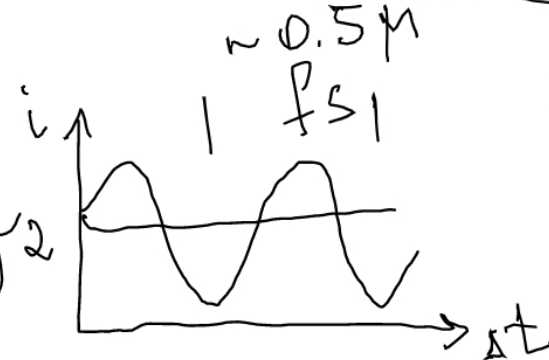
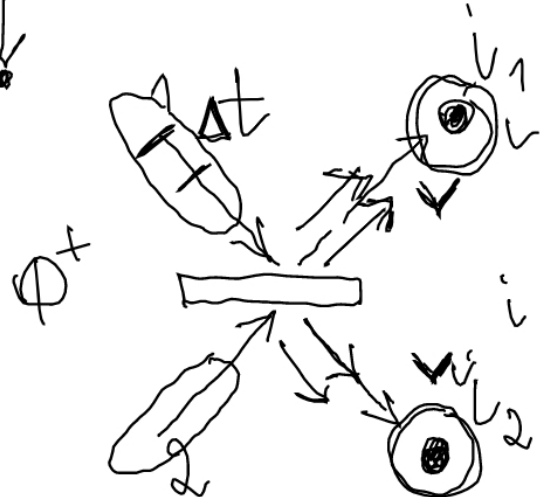


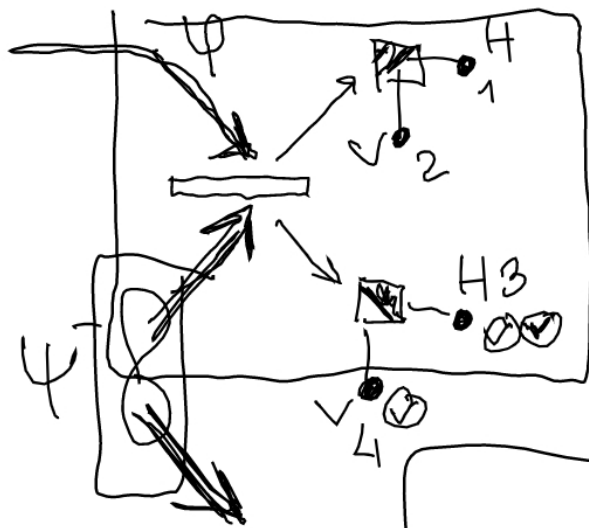


$$\underline{|RR\rangle} + \underline{|LL\rangle}$$



$$\psi^- = HV - VH - (VH - HV)$$

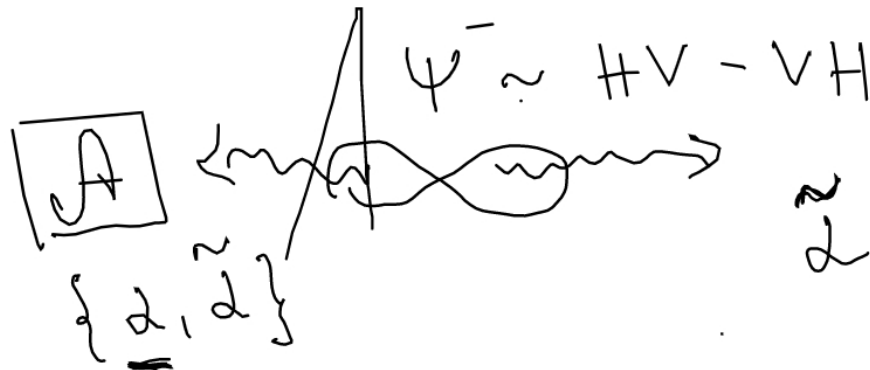




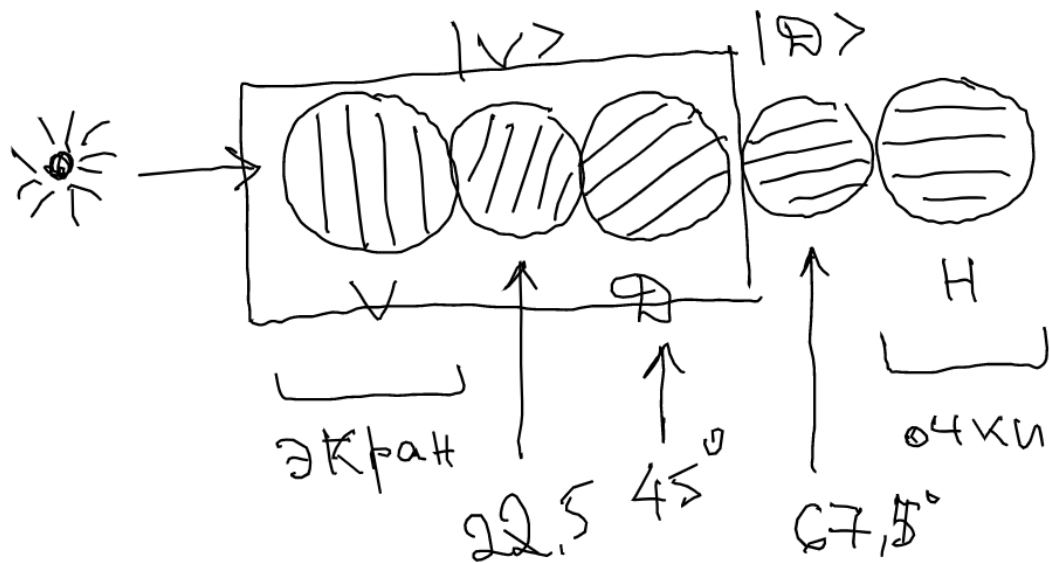
ψ^- - анти-группировка: $1 \times 4 \mid 2 \times 3$
 $\psi^+ \sim \underline{HV} + \underline{VH}$: $1 \times 2 \mid 3 \times 4$
 $\phi^\pm \sim \underline{HH} \pm \underline{VV}$: $1 \mid 2 \mid 3 \mid 4$

$$\psi = \alpha |H\rangle + \beta |V\rangle$$

$2 |H\rangle - \beta |V\rangle$
 $\alpha |V\rangle + \beta |H\rangle$



Кл. эф. Зенона (Zeno)



$$\Delta\theta = \left(\frac{\pi}{2N}\right)$$

$$|\sin^2 \Delta\theta| \sim \Delta\theta^2 \cdot N \sim \frac{1}{N^2} \cdot N \approx \frac{1}{N}$$

$$\begin{aligned} \langle V | H \rangle &= 0 \\ |\langle V | D \rangle|^2 &= \frac{1}{2} \\ |\langle D | H \rangle|^2 &= \frac{1}{2} \end{aligned} \left. \vphantom{\begin{aligned} \langle V | H \rangle &= 0 \\ |\langle V | D \rangle|^2 &= \frac{1}{2} \\ |\langle D | H \rangle|^2 &= \frac{1}{2} \end{aligned}} \right\} \frac{1}{4}$$

$$|\langle \Psi_{in} | \Psi_{out} \rangle|^2$$



0° 22.5° 45°



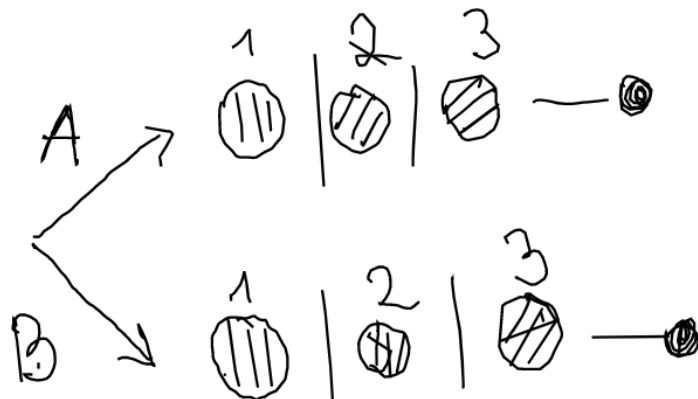
$$\Phi^+ = \frac{1}{\sqrt{2}} \left(|HH\rangle + |VV\rangle \right)$$

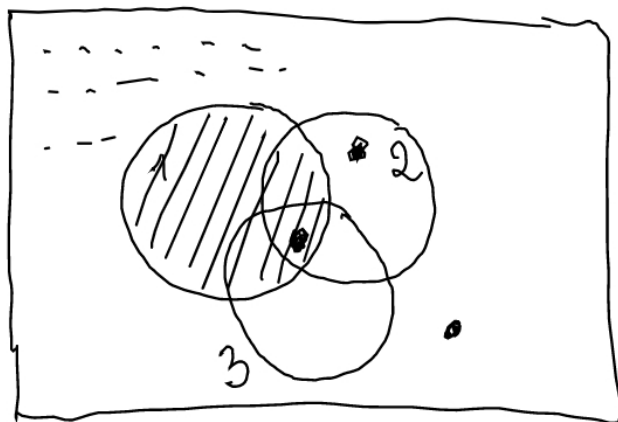
$$|DA\rangle + |AA\rangle$$

A B	VV	VX
1, 2	85%	15%
1, 3	5%	5%
2, 3	85%	15%

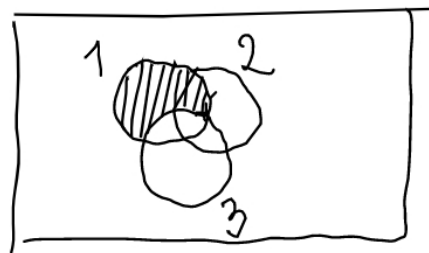
потери $P(1, \bar{3}) = 0.5$
 свет прошел 1 и не прошел 3

$$\left. \begin{array}{l} P(1, \bar{2}) \approx 0.15 \\ P(2, \bar{3}) = 0.15 \end{array} \right\} 0.3$$

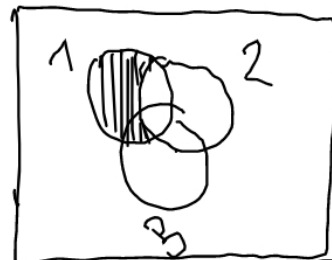




$$P(1, \bar{3})$$



$$P(1, \bar{2})$$

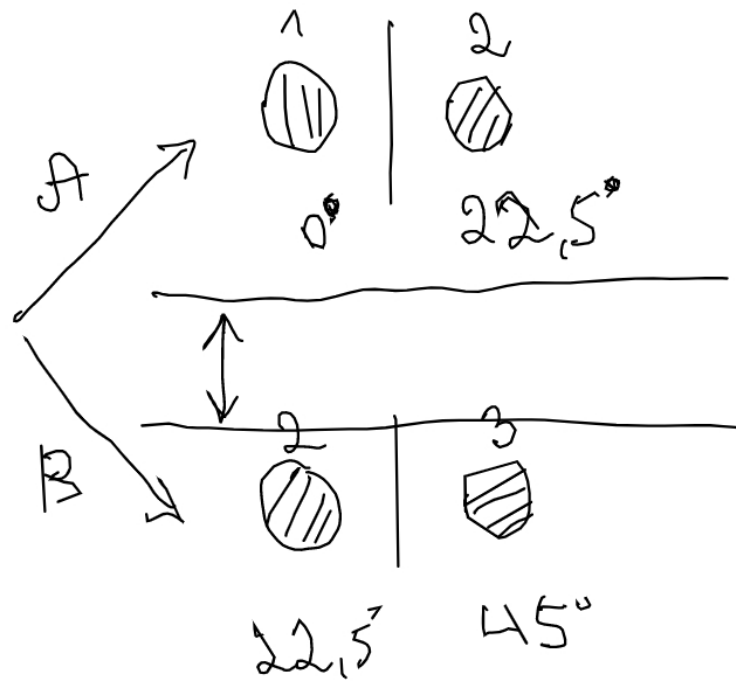


$$P(2, \bar{3})$$

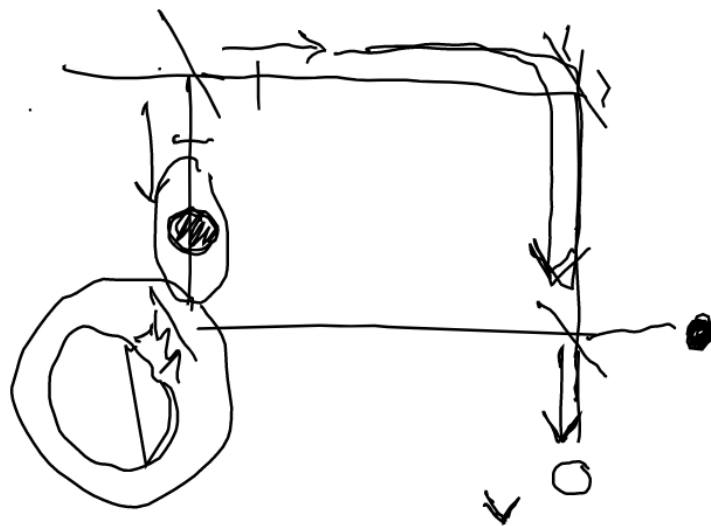


$$P(1, \bar{2}) + P(2, \bar{3}) \geq P(1, \bar{3})$$

не-бо $\exists a \wedge a$



$$\cancel{\alpha} | \text{орб} \rangle + \beta | \text{решка} \rangle$$



$$\underline{\Delta W} \cdot \underline{\Delta t} \geq 1$$

$$|H\rangle \otimes |H\rangle \otimes |H\rangle \quad |HHH\rangle$$