N1

$$K(\varphi_{i}, \varphi_{i}, t) = \langle \varphi_{i} | \sum_{i=1}^{n} | \varphi_{i} \rangle \langle \psi_{i} | e^{iHt/h} | \varphi_{i} \rangle =$$

$$= \sum_{i=1}^{n} | \varphi_{i} | (\varphi_{i}) e^{iEt/h} | \psi_{i}^{*}(\varphi_{i}) \rangle$$

$$H = \frac{t^{2}}{2mR^{2}} \frac{\partial^{2}}{\partial \varphi_{i}} | (t_{2}^{2} - t_{1}^{2}) | (t_{2}^{2} - t_{1}^{2}) \rangle \langle \psi_{i}^{*}(\varphi_{i}^{*}) \rangle \langle \psi_{i}^{*}(\varphi_{i}^{*})$$

= 1 . The state of the state of

Nz

$$|\Psi_{0}\rangle = \frac{1}{6}(|\Psi_{0}\rangle + |\Psi_{0}\rangle)$$

$$|\Psi_{0}\rangle = \frac{1}{6$$

+ [(E0+DE) (a,-a) (4)

ananoranno:

it
$$\frac{\partial}{\partial t} = -\frac{\Delta E}{2} = \frac{\Delta E}{2} =$$

Инспакток пожем туннетровать только в соседнюю глуз

$$X = V'(x) \Rightarrow \tilde{x} = \tilde{x} \frac{d\tilde{x}}{dx} = \frac{\alpha^2}{2} \cdot 2\frac{1}{\alpha} \cdot \sin(2x) \cdot \frac{1}{2} \Rightarrow$$

$$\frac{\dot{X}^{2}}{2} = \frac{\dot{X}_{0}^{2}}{2} - \frac{\dot{\alpha}^{2}}{4} \cos \left[\frac{2x}{a}\right]$$

$$\frac{dx}{dt} = a \left| \sin \frac{x}{a} \right| \Rightarrow \int \frac{dk'a}{|\sin \frac{x}{a}|} = t - t_0$$

Sin
$$\frac{x}{a}$$
co: $\dot{x} = 2a$. $\frac{\dot{e}^{t-4\delta}}{1+\dot{e}^{2}(t-4\delta)}$
 \dot{t} \dot{x} \dot{x}

$$\lim \dot{X} = 2q \cdot \dot{e}^{(t-t_0)}$$

 $t \to \infty$ $\Rightarrow \dot{X} = 2a \cdot exp[-|t|]$
 $\lim \dot{X} = 2a \cdot e^{(t-t_0)}$
 $\lim \dot{X} = 2a \cdot e^{(t-t_0)}$

$$\int_{1}^{\infty} = \mp 2a A_{0} \exp \left[-\frac{1}{|x|}\right]$$

$$\int_{1}^{\infty} = \sqrt{2} a A_{0} \exp \left[-\frac{1}{|x|}\right]$$

$$\int_{1}^{\infty} = \sqrt{2} a A_{0} \exp \left[-\frac{1}{|x|}\right]$$

$$\int_{1}^{\infty} = \pi 2a A_{0} \exp \left[-\frac{1}{|x|}\right]$$

$$W = 8 a^{2}A^{2}$$

$$det 0' = -\left(\frac{2aA_{0}}{W}\right)^{2} \cdot \left(\frac{e^{3}}{4}\left(\frac{f_{2}}{f_{2}}\right) - e^{3}\left(\frac{f_{1}}{f_{1}}\right)\right)^{2}$$

$$= 4 e^{b} \left(\frac{2a + \frac{1}{\sqrt{2a^{2}}}}{8a^{2} + \frac{1}{2a^{2}}} \right) = e^{b} \cdot \left(\frac{\sqrt{2}}{4} \right) = e^{b} / 8$$

F.= B = 8/2 [K, K, = 49]

3) < 4. | U | 4) - e - 80/2 = (BA) = = 2-80/2 8inh (B. M)An