

$$\begin{aligned}
&U \\
&I(U) \\
&I(U) \\
&dI(U)/dU \\
&dI(U)/dU \\
&-F \\
&{}_v3P\text{sovdigramtruktrykov} - \text{izolant} - \text{kovzpredchdzajcehoobrzku.} \\
&\psi_l(x) \\
&\psi_r(x) \\
&{}_v3\text{jeukzanpsovdiagramtruktrykov} - \\
&\text{izolant} - \\
&\text{kov, ktorompomeprivpote. Prejednoduchosuvaujemedvarovna} \text{kkovysFermihoenergiou}_F
\end{aligned}$$

$$\begin{aligned}
&c,l \\
&c,r \\
&\mu_l \\
&\mu_r \\
&\{ \\
&\{ \\
&V_0 \\
&U \\
&\mu_l^- \\
&\mu_r^- \\
&-eU \\
&c,l^-c,r = \\
&-eU \\
&U \\
&c,l \\
&\mu_l \\
&c,r \\
&\mu_r \\
&\{ \\
&\{ \\
&\hat{H} \\
&{}_v3\text{zapeme} \text{tvare} \hat{H} = \\
&-\frac{\hbar^2}{2m} + \\
&V(x), (1)
\end{aligned}$$

$$\begin{aligned}
V(x) &= \{V_0, pre0 < x < b0, preostatn \\
(2)
\end{aligned}$$

$$\begin{aligned}
&b \\
&V_0 \\
&U \\
&V(x) \\
V_l(x) &= \{V_0, pre0 < x0, preostatn \\
(3)
\end{aligned}$$

$$\begin{aligned}
&\hat{H}_l = -\frac{\hbar^2}{2m} + V_l(x), \\
(4) \\
&\psi_l(x) \\
&\psi_l(x) \\
&\psi_l(x) \\
&\{ \\
&\{ \\
V_r(x) &= \{V_0, preb > x0, preostatn \\
(5)
\end{aligned}$$

$$\begin{aligned}
&\hat{H}_r = -\frac{\hbar^2}{2m} + V_r(x), \\
(6) \\
&\psi_r(x) \\
&\psi_l(x) \\
&\psi_r(x) \\
&\{ \\
&\{ \\
&\psi_l(x) \\
&\psi_l(x) \\
&\hat{H} \\
&w_{l \rightarrow r} \\
&\psi_l \\
&E_r \\
&\psi_r \\
&E_r \\
&w_{l \rightarrow r} \\
w_{l \rightarrow r} &= \frac{2\pi}{\hbar} |\psi_r \hat{H} - \psi_l|^2 \delta(l-r),
\end{aligned}$$