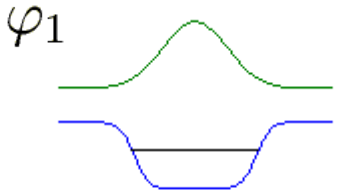
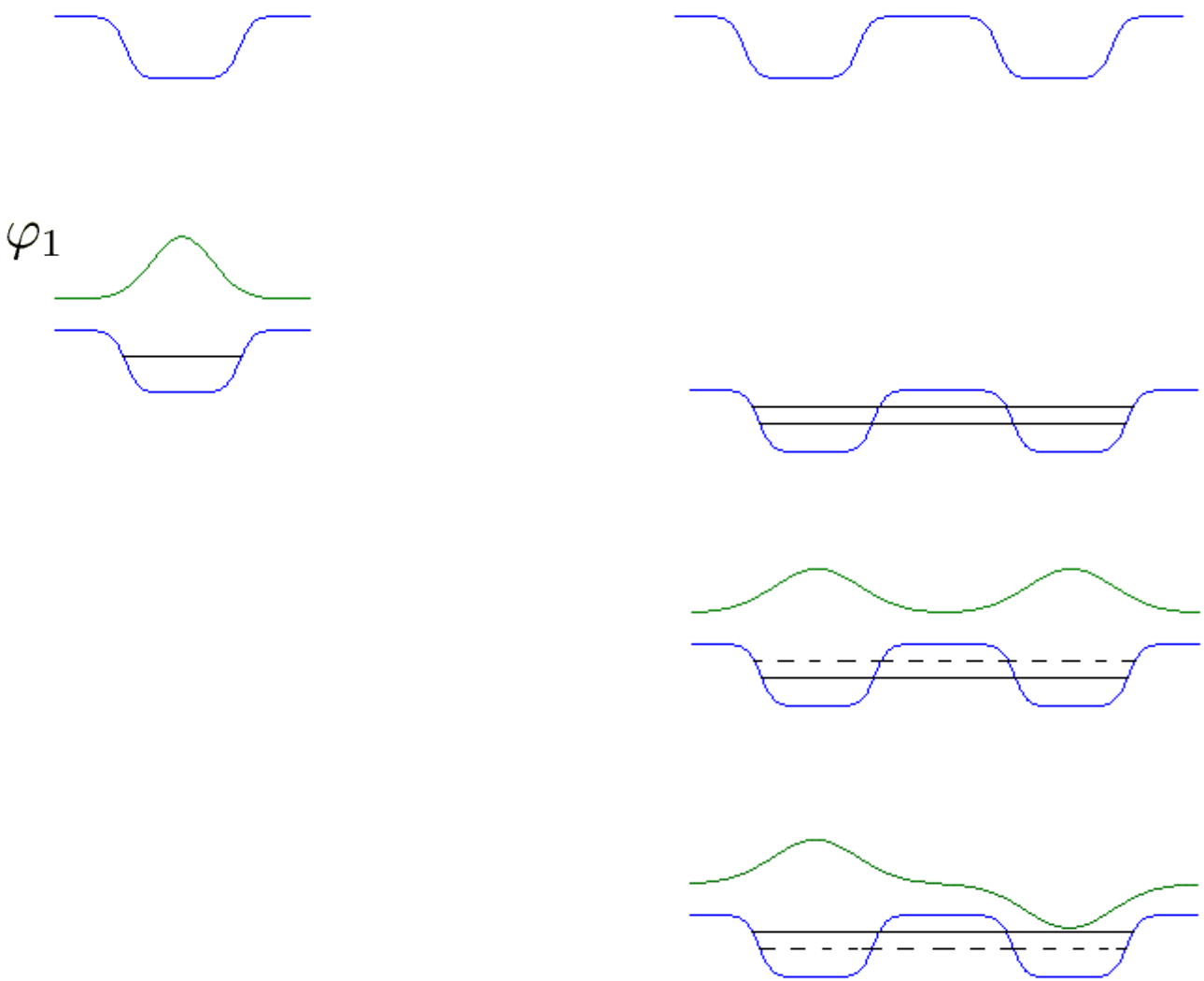
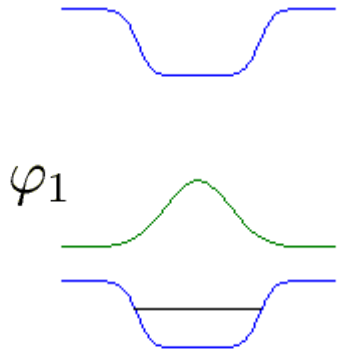
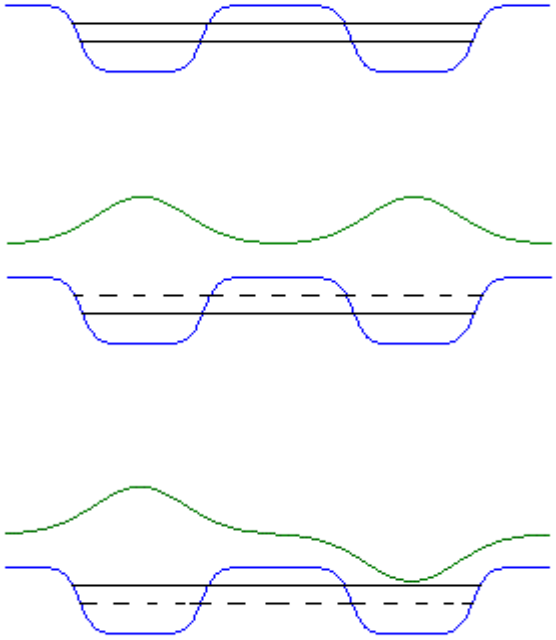

φ_1


φ_1

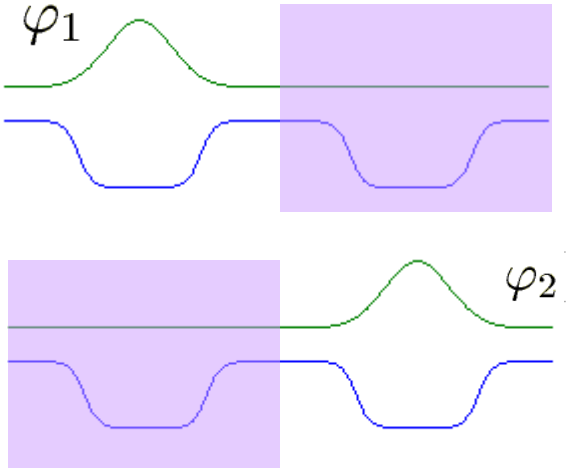
Place the electron in one well: Time development





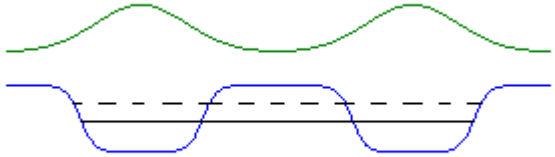
$$\psi_+ \approx \frac{1}{\sqrt{2}}(\varphi_1 + \varphi_2)$$

$$\psi_- \approx \frac{1}{\sqrt{2}}(\varphi_1 - \varphi_2)$$

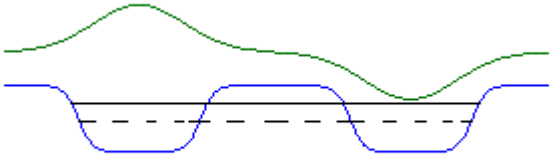


$$\psi_+ \approx \frac{1}{\sqrt{2}}(\varphi_1 + \varphi_2) \qquad \varphi_1 = \frac{1}{\sqrt{2}}(\psi_+ + \psi_-)$$

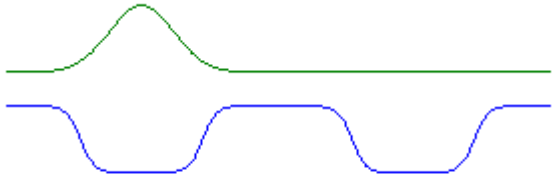
$$\psi_- \approx \frac{1}{\sqrt{2}}(\varphi_1 - \varphi_2) \qquad \varphi_2 = \frac{1}{\sqrt{2}}(\psi_+ - \psi_-)$$



$$\psi_+ \approx \frac{1}{\sqrt{2}}(\varphi_1 + \varphi_2) \qquad \varphi_1 = \frac{1}{\sqrt{2}}(\psi_+ + \psi_-)$$

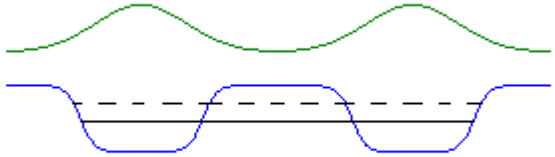


$$\psi_- \approx \frac{1}{\sqrt{2}}(\varphi_1 - \varphi_2) \qquad \varphi_2 = \frac{1}{\sqrt{2}}(\psi_+ - \psi_-)$$

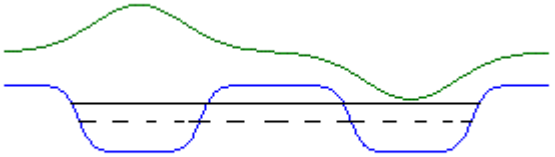


$$\Psi(t=0) = \varphi_1 = \frac{1}{\sqrt{2}}(\psi_+ + \psi_-)$$

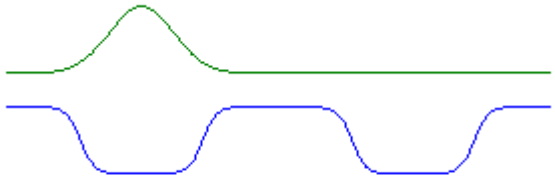
Time development



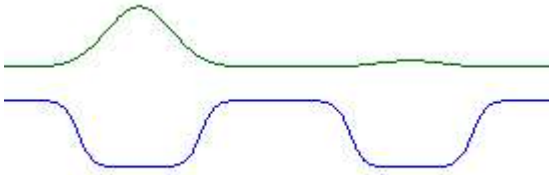
$$\psi_+ \approx \frac{1}{\sqrt{2}}(\varphi_1 + \varphi_2) \qquad \varphi_1 = \frac{1}{\sqrt{2}}(\psi_+ + \psi_-)$$



$$\psi_- \approx \frac{1}{\sqrt{2}}(\varphi_1 - \varphi_2) \qquad \varphi_2 = \frac{1}{\sqrt{2}}(\psi_+ - \psi_-)$$



$$\Psi(t=0) = \varphi_1 = \frac{1}{\sqrt{2}}(\psi_+ + \psi_-)$$



$$\Psi(t) = \frac{1}{\sqrt{2}}\left(\psi_+ e^{iE_+ t/\hbar} + \psi_- e^{iE_- t/\hbar}\right)$$

$$\Psi(t) = e^{i\ C(t)}\ \left(\ \psi_+\ +\ e^{i\omega t}\ \psi_-\ \right)$$