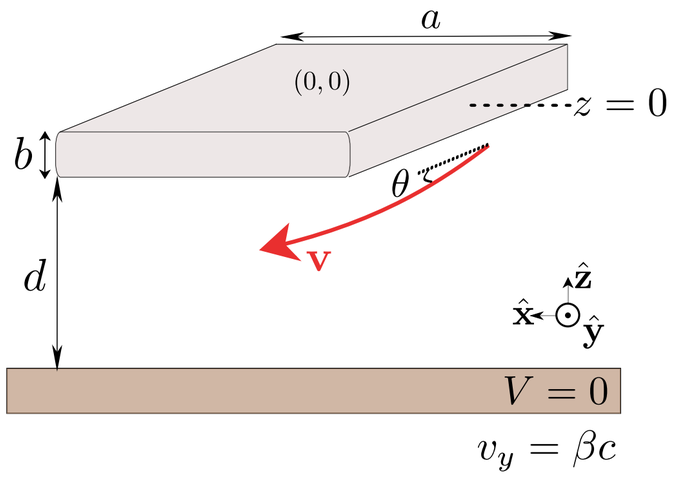
Tuesday: meeting about the potentia near rectangular nanowire

From motion equation:

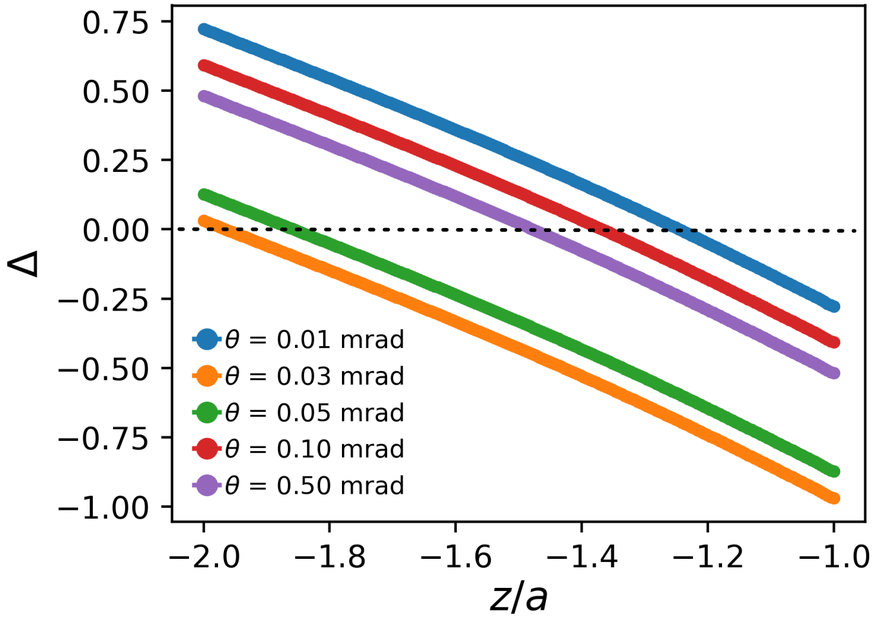
$$\frac{\mathrm{d}z}{\mathrm{d}t} = \sqrt{\frac{2eV(z)}{m_\mathrm{e}\gamma_\mathrm{e}} + v_{\perp\infty}^2}$$

Minimum value of z: $\Delta = \dfrac{V(z)}{V_0} + \dfrac{m_\mathrm{e}c^2\gamma_\mathrm{e}}{2e}\dfrac{\beta^2\tan^2\theta}{V_0}$



$b/a = 2 \quad d/a = 1 \quad ds/a = 0.1$

Preliminary plot:



z_{min} for different angles

Potential from code: