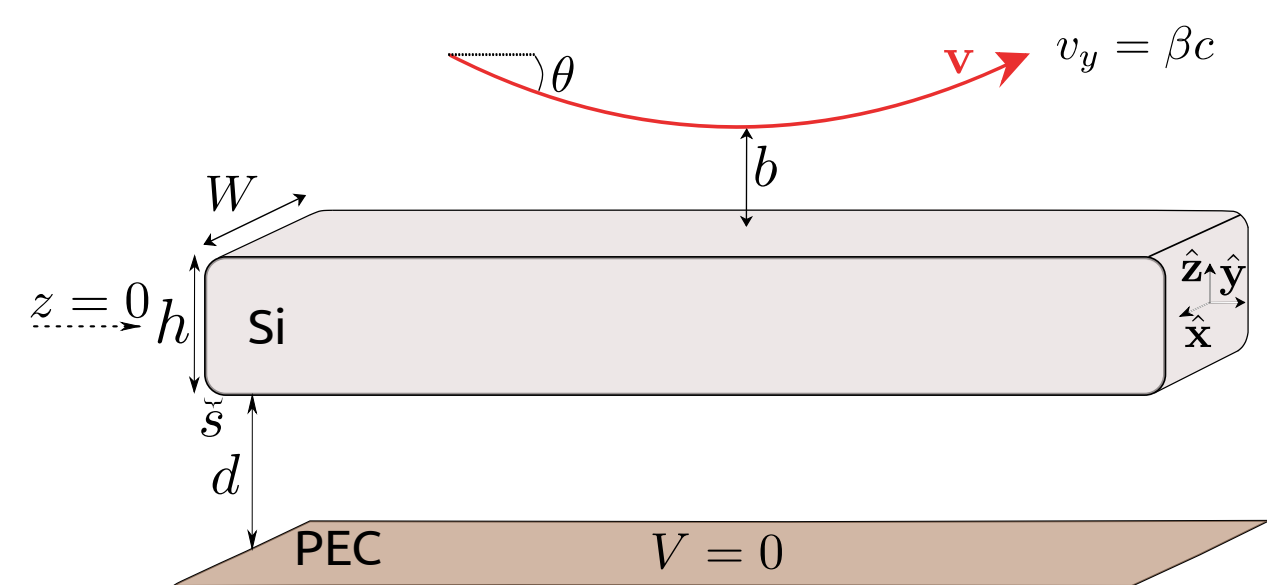


Electron-coupling-to-WG: Potential near rectangular nanowire

From motion equation: $\frac{dz}{dt} = \sqrt{\frac{2eV(z)}{m_e \gamma_e} + v_{\perp\infty}^2}$

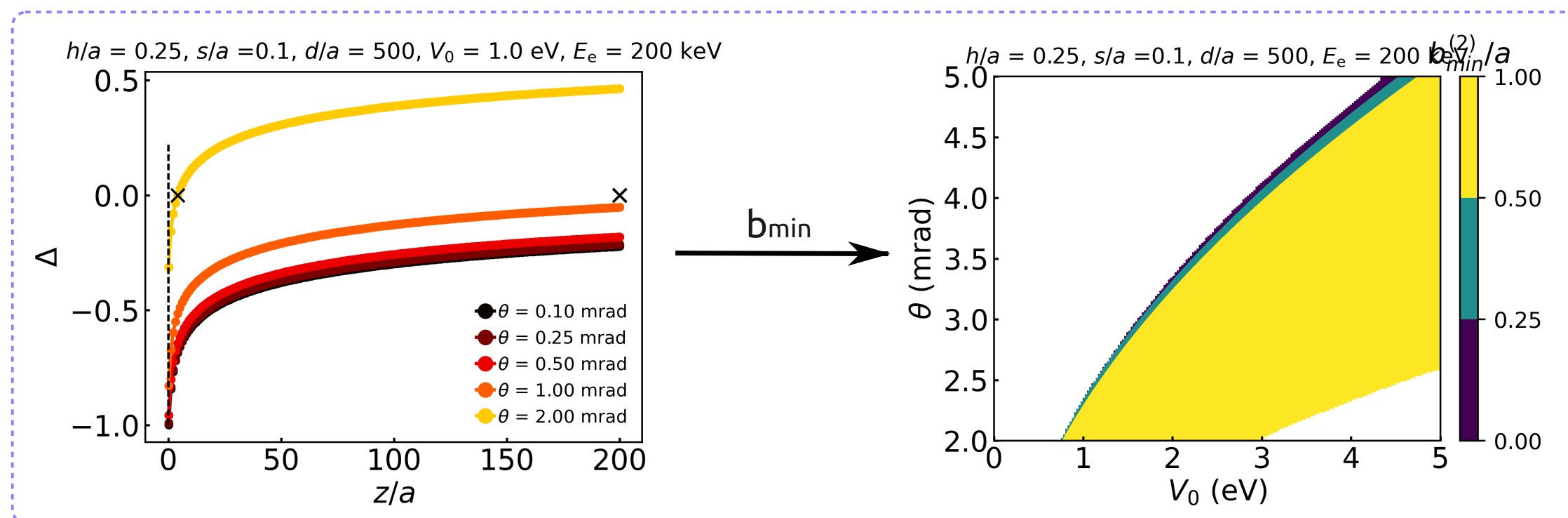
Minimum value of z: $\Delta = \frac{V(z)}{V_0} + \frac{m_e c^2 \gamma_e}{2e} \frac{\beta^2 \sin^2 \theta}{V_0}$



$$d/W = 500 \quad s/W = 0.1$$

$$E_e = 200 \text{ keV}$$

$$h/W = 0.25$$



$$h/W = 0.5$$

