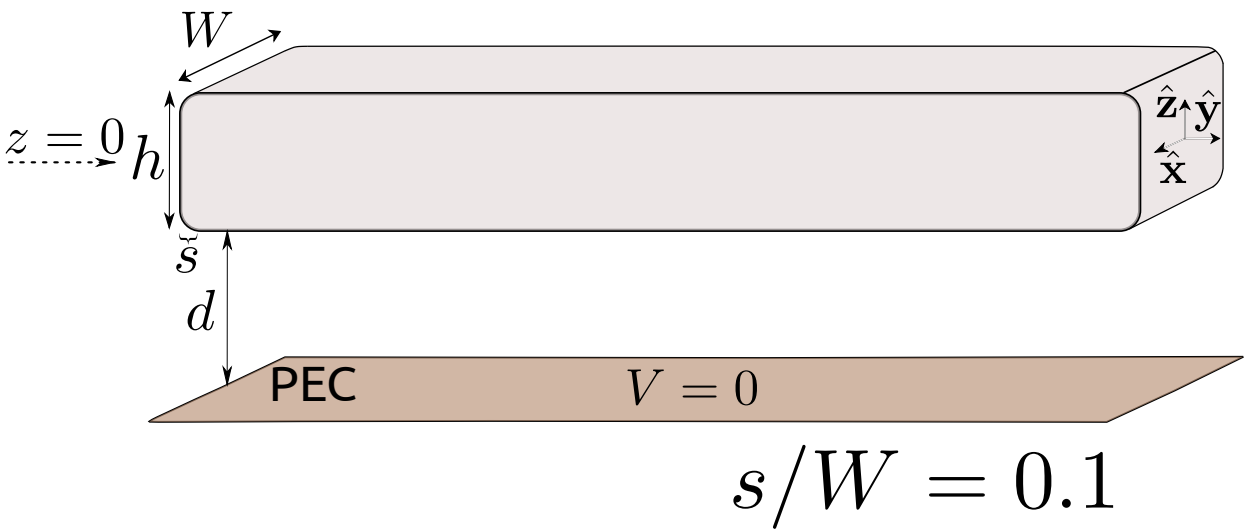# Electron-coupling-to-WG: Potential near rectangular nanowire

Analytical:

(guess)

$$\frac{V(z)}{V_0} = \frac{\log(z\eta/d)}{\log[(h/2)\eta/d]} \qquad \eta = 4(1 + 1/d)$$

$s/W = 0.1$

Potential: Numerical vs analytical (dashed)