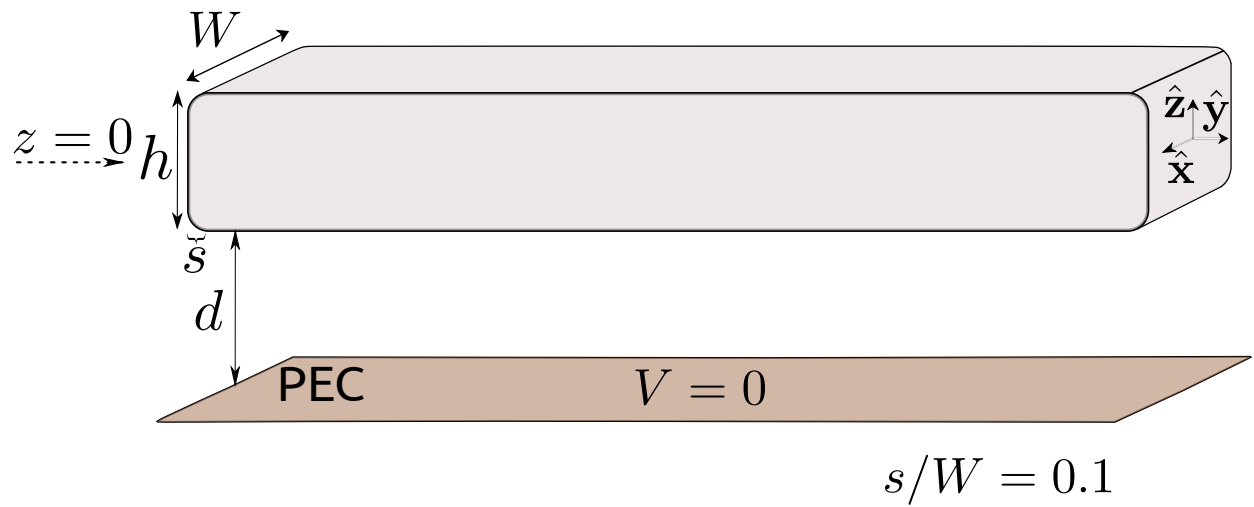


Electron-coupling-to-WG: Potential near rectangular nanowire

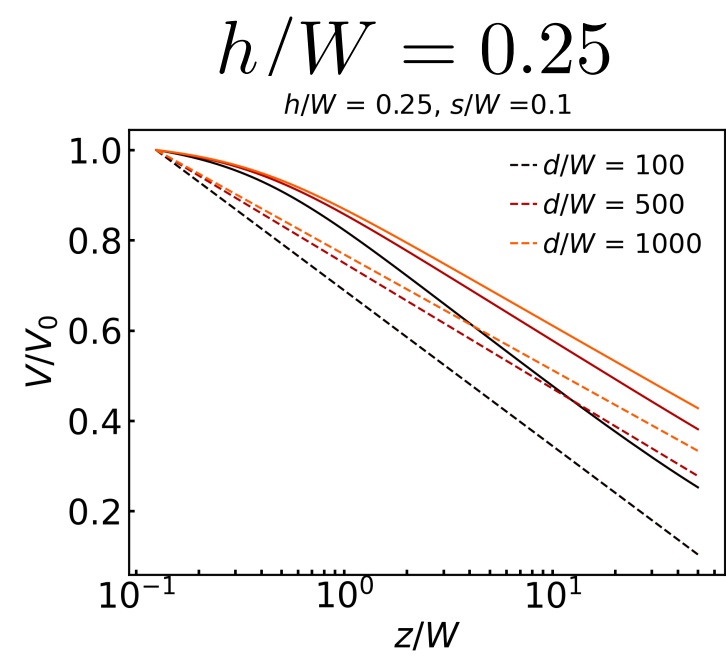
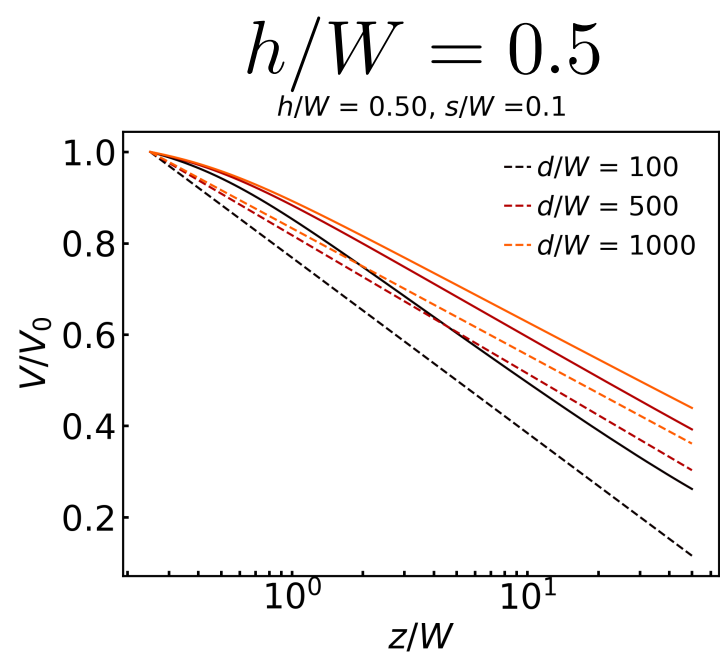
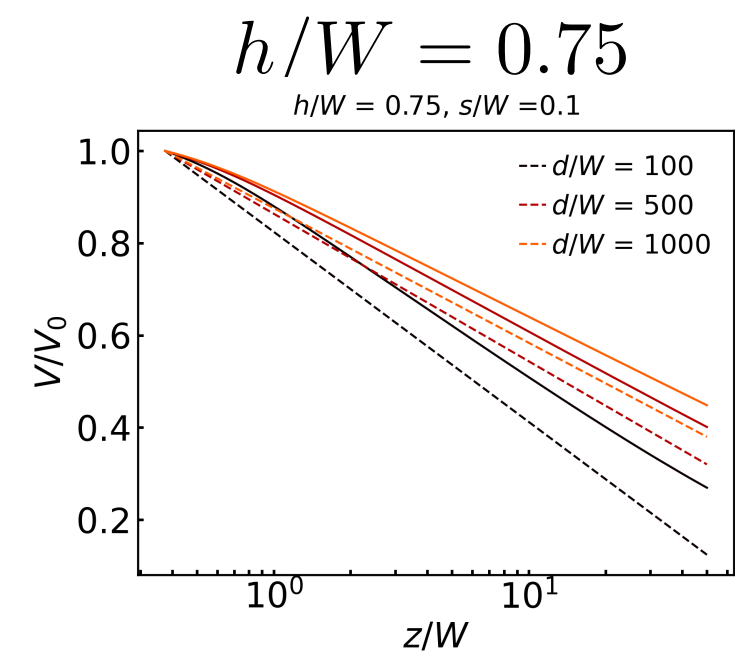
Analytical limit for a charge wire when $d \gg 1$:

$$\frac{V(z)}{V_0} = \frac{\log(z/d)}{\log[(h/2)/d]}$$

add a correction to the formula



Potential: Numerical vs analytical (dashed)



ratio

