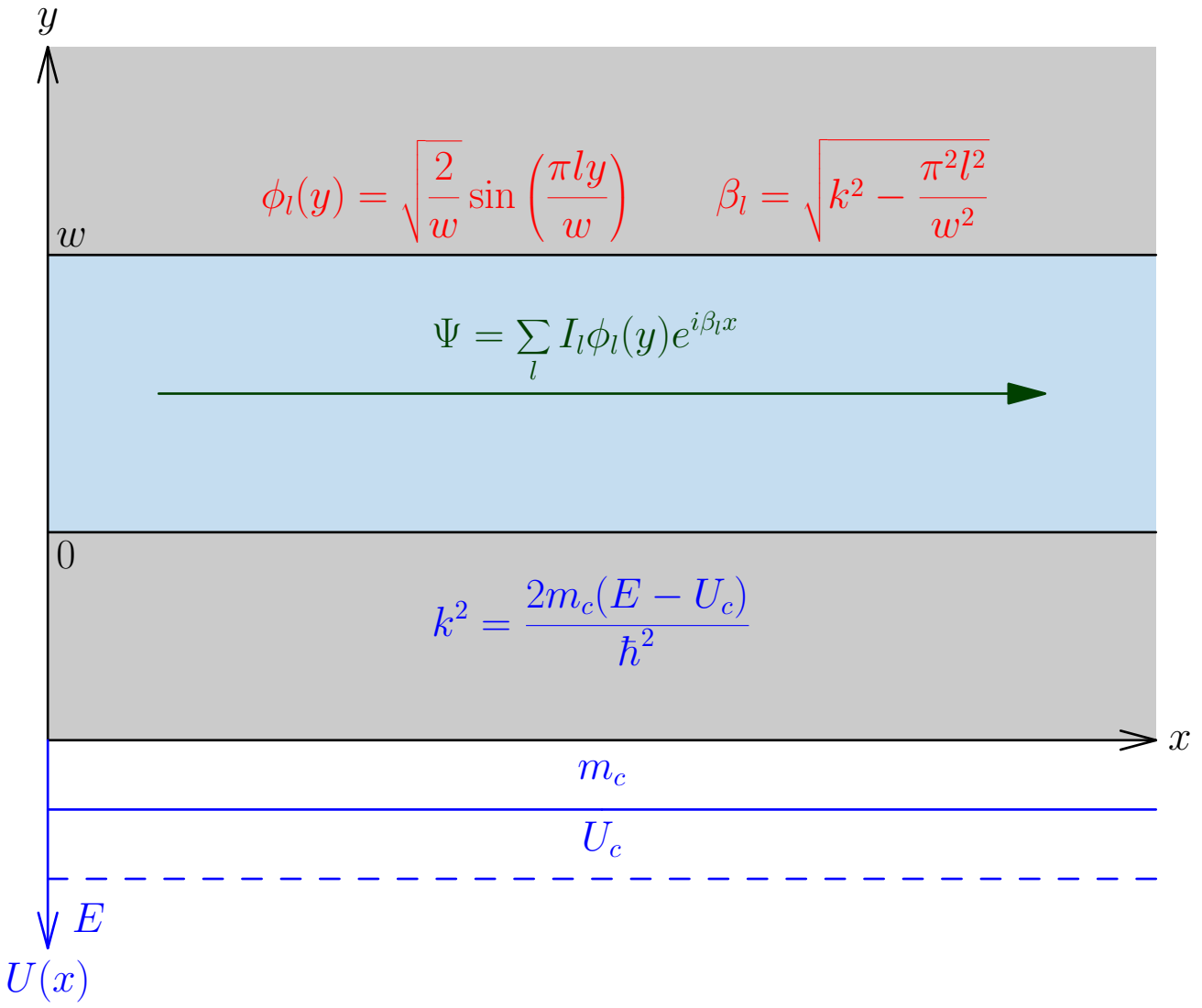
y
$\phi_l(y) = \sqrt{\frac{2}{w}} \sin\left(\frac{\pi l y}{w}\right)$
$\beta_l = \sqrt{k^2 - \frac{\pi^2 l^2}{w^2}}$
w
$\Psi = \sum_l I_l \phi_l(y) e^{i\beta_l x}$
0
$k^2 = \frac{2m_c(E - U_c)}{\hbar^2}$
x
m_c
U_c
E
$U(x)$