\[ k_x = k_y = k_z = \frac{2\pi n}{L} \]
(a) \[ V_{ion} = \frac{Ze}{r} \]

(b) \[ r_c \]
$E = 0$
(unbound level)

$E_F = -4.48 \text{ eV}$
(highest filled level)

$E = -6.6 \text{ eV}$
(lowest filled level)
\[ K = G_{hkl} + \bar{k} \]

\[-\pi/2 < \bar{k} < \pi/2\]