$$Z_{o} = \frac{d}{h} \sqrt{2mV_{o}}$$
 $q = 10^{-10} m$ 

$$Z_0 = \frac{10^{-10}}{6.582 \times 10^{-16}} \sqrt{2(9.382 \times 108)(0.01)}$$

$$Z_0 = 6.5812 \times 10^8 / c = 2.19525202$$

$$F(z) = +4n(z) - \sqrt{(zvz_a)^2 - 1}$$

$$\left(\frac{\hbar z}{a}\right)^2 \frac{1}{2m} - V_o = E$$

$$\frac{\left(\frac{(6.582\times10^{-16}\,\mathrm{eV})(1.06452)}{(10^{-10}\,\mathrm{m})}^{2}\right)^{2}\frac{1}{2(9.382\times10^{8}\,\mathrm{eV})}$$