



$$E - \frac{4\pi}{3} R^3 p = N_Q \frac{2.04}{R}$$

$$4\pi R^2 p = N_Q \frac{2.04}{R^2}$$

$$p_E = \frac{E}{4\pi R^3/3} = 4p$$

$$p_Q = N_Q \frac{2.04}{4\pi R^3/3} = 3p$$

Figure 2.