Chapter], problem #1 Pe,f Zolvel = EO P > PP,+ 0=5° mp = 0.938 Me=0 Pei + Ppi = Pe, + + Ppi+ Pei = (Eg, O, O, Eg) Ppii = (Mp, O, O, O) Pet = (E, O, Esnt), Euro) To = (Peil Pef) Pr.+ (Ep. 0, -FsAD, -tous = (E₀-E)₁-(E₀-Ew20) = -2.82 TEST CHENT - (20 Cel)

$$\Delta r = \frac{h}{q}$$

$$q^{2} = 2.8 \text{ GeV}^{2}$$

$$W = 1.68 \text{ GeV}$$

$$V = \frac{hc}{1.68 \text{ GeV}}$$

$$L = \frac{hc}{1.68 \text{ GeV}}$$

$$L = \frac{hc}{1.68 \text{ GeV}}$$

$$C = \frac{hc}{1.68 \text{ GeV}}$$

$$C = \frac{hc}{1.68 \text{ GeV}}$$

$$2\pi hc = \frac{2(3.14)(6.59 \times 10^{25} \text{ GeVs})}{1.68 \text{ GeV}}$$

$$\Delta r = \frac{2\pi hc}{1.68 \text{ GeV}}$$

$$\lambda = \frac{2(3.14)(6.59 \times 10^{25} \text{ GeVs})}{1.68 \text{ GeV}}$$

= 0.139 fm