64.
$$x = 5mm$$

76. $An = 11.3 \frac{1}{2} / cm^3$, $z = 82$
 $E = h2 HeV$
 $E = E \cdot c^{\frac{1}{12}} \approx E \cdot e^{-\frac{1}{12}}$

AEm = $\frac{2 \cdot E}{800} = \frac{82.142}{800} \approx 5$

42 = 0,3678. E.

E. = 114 MeV

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27. $r = 4 \frac{1}{7}m = \frac{1.10^{11}}{m}$
 $Q_{17}(2x) = 0$
 $Q_{2} = Q_{1}(s = cx) + Q_{2}(r) = Q_{2}(r)$
 $P = \frac{Q}{V} = \frac{e}{V} \quad (mabay protonol)$
 $Q_{2} = Q_{1}(s = cx) + Q_{2}(r) = Q_{2}(r)$
 $Q_{3} = \frac{1}{2} \cdot \frac{e}{V} \cdot r^{2}(\frac{3}{2}\cos^{3}\frac{\pi}{2} - \frac{1}{2}) \cdot V$
 $Q_{2} = -\frac{1}{2} \cdot \frac{1}{2} \cdot 16 \cdot 10^{-10} \cdot m^{\frac{1}{2}} = -8 \cdot 10^{-10} \cdot m^{\frac{1}{2}}$
 $Q_{3} = -\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$