Fig. 7. The shape and parameters which describe an approximate model of the gold nucleus. This type is called the Fermi model[9].

experiments. Higher accuracy can probably distinguish between these possibilities but such studies are only beginning now.

The results of many of the above experiments covered a large range of nuclei and demonstrated[9] that two simple rules can be used to summarize the scheme of construction of spherical nuclei, viz. :

$$c = (1.07 \pm 0.02) \cdot 10^{-13} A^{\frac{1}{3}} \text{ cm}$$
$$t = (2.4 \pm 0.3) \cdot 10^{-13} \text{ cm} = \text{constant} \tag{6}$$