Só a partícula α é emitida
⟹ espectro de energia é discreto.

Energias típicas são da ordem de
∼ 4 - 6 MeV

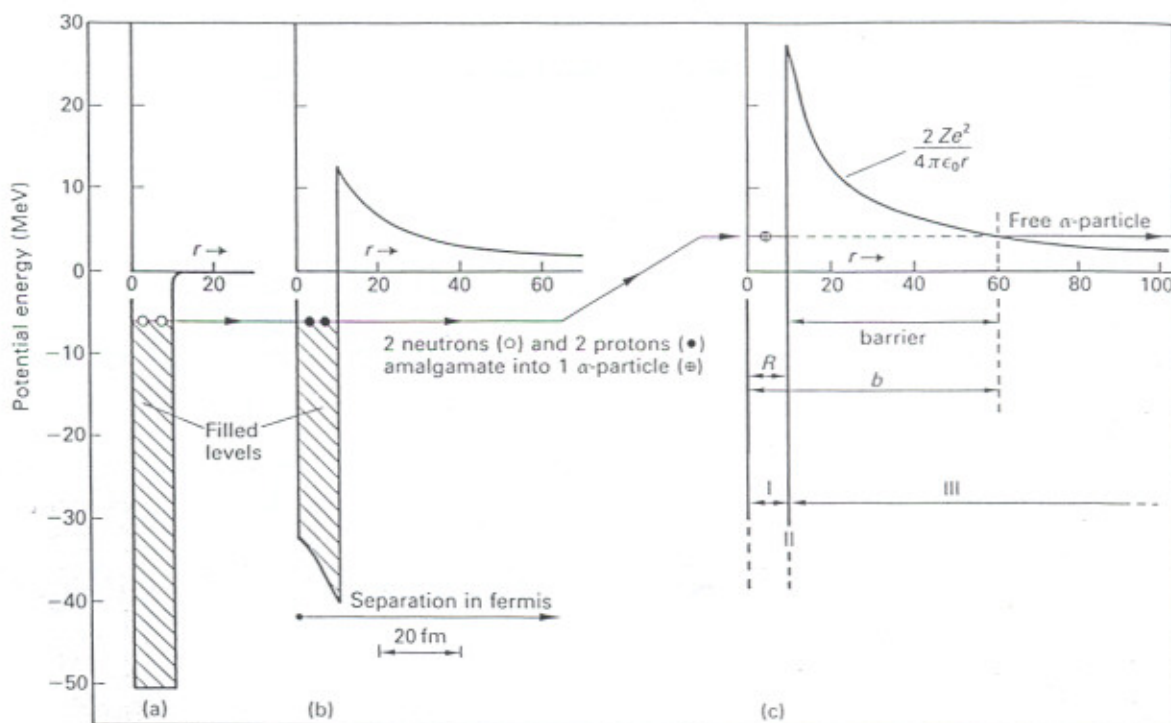pois a transmissão em barreiras de po-
tencial é função da energia.

Fig. 6.2 Diagrams of the form of the potential energy versus distance r from the nuclear centre for (a) neutrons and (b) protons in and near a nucleus of Z=90, A≈236. The changing of two protons and two neutrons as they amalgamate to form an α-particle is shown. If an α-particle is formed, then it is presumed to have a potential energy as a function of distance, as shown in (c). The regions I, II, and III are described in the text.

• Probabilidade de transmissão p/ efeito de túnel:

$$T(E) \approx e^{-2Kt} \quad , \quad e| \quad K = \frac{1}{\hbar}\sqrt{2M(U-E)}$$