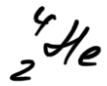


EJERCICIO F2BE2491:

$$M_{NdHe} = 4,0026 \text{ UMA}$$



$$m_p = 1,0073 \text{ UMA}; m_n = 1,0087 \text{ UMA}$$

$$1 \text{ UMA} = 1,66 \cdot 10^{-27} \text{ kg}; c = 3 \cdot 10^8 \text{ m/s}$$

¿Energía de enlace por nucleón?

$$\Delta m = [2 \cdot m_p + (4-2) \cdot m_n] - M_N =$$

$$= (2 \cdot 1,0073 + 2 \cdot 1,0087) - 4,0026 =$$

$$= 4,032 - 4,0026 = 0,0294 \text{ UMA}$$

$$\Delta m = 0,0294 \text{ UMA} \frac{1,66 \cdot 10^{-27} \text{ kg}}{1 \text{ UMA}} = 4,88 \cdot 10^{-29} \text{ kg}$$

$$\Delta E = \Delta m \cdot c^2 = 4,88 \cdot 10^{-29} \cdot (3 \cdot 10^8)^2 = 4,39 \cdot 10^{-12} \text{ J}$$

$$\frac{\Delta E}{A} = \frac{4,39 \cdot 10^{-12}}{4} = \boxed{1,0975 \cdot 10^{-12} \text{ J}}$$