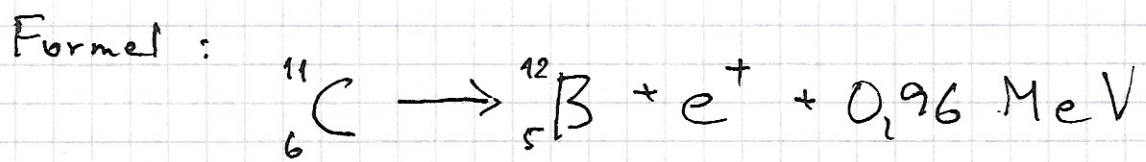


Formel :



Vilomassor ${}^{11}\text{C}$ $m_C = 11,0114336 \text{ u}$

B-12 $m_B = 11,009305 \text{ u}$

$e^+; e^-$ $m_e = 0,000549 \text{ u}$

Massdefekt $(m_C - 6m_{e^-}) - ((m_B - 5e^-) + m_{e^+})$
 $= m_C - m_B - 2m_e$
 $= 0,0010306 \text{ u} \sim 0,96 \text{ MeV}$

Konstanter och omvandlingar :

$$c_0 = 2,998 \cdot 10^8 \text{ m/s}$$

$$e^{+-} = \pm 1,602 \cdot 10^{-19} \text{ C}$$

$$m_e = 0,000549 \text{ u} = 9,1094 \cdot 10^{-31} \text{ kg}$$

$$1 \text{ eV} = 1,602 \cdot 10^{-19} \text{ J}; 1 \text{ MeV} = 10^6 \text{ eV}$$

$$1 \text{ u} = 1,66 \cdot 10^{-27} \text{ kg} \text{ motsvarar}$$

$$1,492 \cdot 10^{-10} \text{ J} = 9,313 \cdot 10^8 \text{ eV}$$

$$= 931,3 \text{ MeV}$$