Facit, kapitel 11

1 a) 2 st neutroner, 2 st protoner

b) 7 st neutroner, 6 st protoner (dessutom 6 elektroner)

2

a) $m(^2H) = 2{,}0141018\,u$

Väte	1	^1H	1,0078250
		^2H	2,0141018
		^3H	3,0160493

b) $m(^2_1H) = m(^2H) - m(e^-)$

2.014018 - 0,0005485

3 $X = {}^{30}_{15}P$

4. a) $9 \cdot 10^{16}\ J$

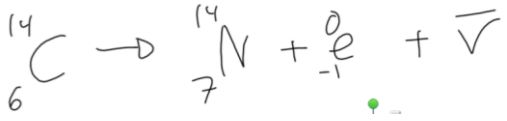
b) $1{,}5 \cdot 10^{-10}\ J$

5. a) $0{,}624 \cdot 10^{19}\ eV$

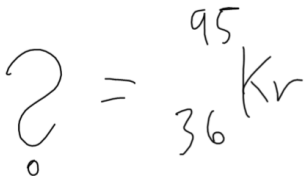
b) $931{,}49\ MeV$

6. $3{,}26 \cdot 10^{6}\ eV$

7. ${}^{238}_{92}U \rightarrow {}^{234}_{90}Th + {}^{4}_{2}He$

8. 

9. a) $6\ mg$
   b) $3\ mg$
   c) $1{,}06\ mg$

10. 

11.