

## 5.1. MODEL ATOMU

ZTO 5.1-1: a, d, e

ZTO 5.2-2: c

ZTO 5.2-3: a

ZTO 5.2-4: b

ZTO 5.2-5: b

ZTO 5.2-6: d

ZTO 5.2-7: c

ZTO 5.2-8: b

ZTO 5.2-9: a

ZLP 5.1-1:  $3,3 \cdot 10^{15}$  Hz ; 13,53eV

BLP 5.1-2: 1,13eV ; 1130nm

BLP 5.1-3: ano; 0,43eV

## 5.2. ATOMOVÉ JÁDRO

ZTO 5.2-10: a

ZTO 5.2-11: c

ZTO 5.2-12: a

ZTO 5.2-13: a

ZTO 5.2-14: c

ZTO 5.2-15: d

ZLP 5.2-4:  $E = 1,494 \cdot 10^{-10}$  J =  $9,3 \cdot 10^2$  MeV

ZLP 5.2-5: 1800MeV

ZLP 5.2-6: 8MeV/nukleon ;  $0,57 \cdot 10^{-27}$  kg

BLP 5.2-7: 8MeV/nukleon

## 5.3. RADIOAKTIVITA

ZTO 5.3-16: d

ZTO 5.3-17: b

ZTO 5.3-18: c

ZTO 5.3-19: a

ZTO 5.3-20: d

ZTO 5.3-21: c

ZTO 5.3-22: d

ZTO 5.3-23: b

ZTO 5.3-24: b

ZTO 5.3-25:  $s^{-1}$

ZTO 5.3-26: a

ZLP 5.3-8: 371s

ZLP 5.3-9: 58s

ZLP 5.3-10: 8,3 %

BLP 5.3-11:  $1,52 \cdot 10^7$  m·s<sup>-1</sup>

## 5.4. JADERNÉ REAKCE

ZTO 5.4.-27: b

BTO 5.4.-28: b

**BTO 5.4.-29:** b  
**BTO 5.4.-30:** neutrony  
**ZLP 5.4-12:**  $6\alpha; 4\beta$   
**ZLP 5.4-13:**  ${}_{92}^{235}\text{U}$   
**ZLP 5.4-14:** 32pJ

## **5.5. MĚŘENÍ JADERNÉHO ZÁŘENÍ**

**ZTO 5.5-31:** a  
**ZTO 5.5.-32:** a, b  
**ZTO 5.5.-33:** a  
**ZLP 5.5-15:** 4100 let