

$$\boxed{4.8 \times 10^{-14} \text{ J}} \leftarrow \text{X-rays}$$

$$E = eU \leftarrow \text{Spannung}$$

↑ Energie  
↓ elementar e Ladung

$$U = \frac{E}{e}$$

$$e = 1.6 \times 10^{-19} \text{ C}$$

$$U = \frac{4.8 \times 10^{-14} \text{ J}}{1.6 \times 10^{-19} \text{ C}}$$

$$= 3 \times 10^5 \frac{\text{J}}{\text{C}}$$

$$3 \times 10^5 \text{ V}$$

$$\frac{300000 \text{ V}}{\boxed{300 \text{ kV}}}$$

