Radioactive decay Solutions

1. Radioactive decay is the spontaneous nuclear transformation of unstable nuclides. U-238 half-life: $4.5 \cdot 10^9$ years.

2. There are four main types of decay: alpha, beta − , beta+, and gamma. Beta emissions up to 1 MeV, gamma up to 10 MeV.

3. Alpha decay emits helium nuclei (2 p, 2 n). Range in air approx. 5 cm at 5 MeV.

4. Beta − decay emits electrons from the nucleus. Energy up to 1 MeV, range ~10 m in air.

5. Beta+-decay emits positrons from the nucleus. Na-22 emits positrons with 0.54 MeV.

6. Gamma decay emits high-energy photons. Energy range 100 keV–10 MeV.

7. Half-life is the time it takes for the nuclide to decay by half. C-14 half-life: 5730 years.

8. Activity $A = \lambda \cdot N$ in becquerels (Bq). 1 Bq = 1 decay/s, e.g. 1 MBq source.

9. Decay constant $\lambda = \ln 2 / T_{1/2}$. For C-14 : $\lambda \approx 1.21 \cdot 10^{-4}\ a^{-1}$.

10. Decay curve: $N(t) = N_0 \cdot e^{-(\lambda \cdot t)}$. After $T_{1/2}$, 50% remains.

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Camilla Rothe

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