

Nuclear Equations

Name

Write nuclear equations that describe the following processes:

${}_{91}^{231}\text{Pa}$ decays by alpha emission to Ac.

${}_{87}^{222}\text{Fr}$ decays by beta emission to Ra.

${}_{87}^{221}\text{Fr}$ decays by alpha emission to At and emits a gamma ray.

${}_{85}^{210}\text{At}$ decays by alpha emission to Bi.

${}_{54}^{133}\text{Xe}$ decays by beta emission to Cs and emits two gamma rays.

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