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A P Q U E S T I O N

Answer each of the following questions regarding radioactivity.

- a) Write the nuclear equation for decay of ${}^{234}_{94}\text{Pu}$ by alpha emission.
- b) Account for the fact that the total mass of the products of the reaction in part (a) is slightly less than that of the original ${}^{234}_{94}\text{Pu}$.
- c) Describe how α , β , and γ rays each behave when they pass through an electric field. Use the diagram below to illustrate your answer.

