Answer on Question #65342 – Chemistry –General Chemistry

Cesium-137 undergo beta decay to metastable radioisotop (X), which then undergoes gamma emmission to a stable nuclei (Y). Write the two nuclear reactions for the two-step nuclear decay.

Solution.

$${}^{137}_{55}Cs \rightarrow {}^{137m}_{56}Ba + {}^{0}_{-1}\beta$$

$${}^{137m}_{56}Ba \rightarrow {}^{137}_{56}Ba + {}^{0}_{0}\gamma$$

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