• Write balanced nuclear equations for the following reactions.

Beta decay of nickel-66.

$$^{66}_{28}Ni \ \to \ ^{66}_{29}Cu \ + \ ^{0}_{-1}e$$

Electron capture of selenium-72

$$^{72}_{34}Se \quad + \ ^{0}_{\text{-1}}e \ \rightarrow \ ^{72}_{33}As \ + \ X\text{-rays}$$

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