^{206}Rn

In the 1954 paper "The α-activity induced in gold by bombardment with nitrogen ions," Burcham described the identification of ^{206}Rn (1954Bu67). Gold foils were bombarded with a 75-120 MeV nitrogen beam from the Birmingham Nuffield 60-inch cyclotron forming ^{206}Rn in the fusion-evaporation reactions ^{197}Au(^{14}N,5n). Alpha-decay curves of the irradiated samples were measured with an ionization chamber. "Assignment of the 6.25 MeV group of α-particles to ^{206}Em is based on predictions from α-decay systematics..." The measured half-life was 6.5(5) min.

Adapted from reference (2013Fr09)

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