^{72}Kr

First reported in the article "A New N = Z Isotope: Krypton 72", Schmeing et al. made the discovery of ^{72}Kr in 1973 using the upgraded Chalk River MP tandem (1973Sc17). Production of the isotope occurred by the fusion-evaporation reaction of ^{16}O at 55 MeV with a ^{58}Ni target, ^{58}Ni(^{16}O,2n)^{72}Kr. The reaction products were thermalized in the helium target cell and periodically swept to a shielded counting cell where β-delayed γ-rays were observed. "We determine the half-life of ^{72}Kr to be 16.7$\pm$0.6 s." It should be mentioned that within a month of the submission by Schmeing, Davids et al. submitted their results reporting the observation of ^{72}Kr (1973Da22).

Adapted from reference (2010He02)

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