^{142}Cs

"Half-lives of Cs^{141}, Cs^{142}, and Cs^{143}" was published in 1962 by Fritze documenting the discovery of ^{142}Cs (1962Fr03). The pneumatic-rabbit system of the McMaster Reactor was used to irradiate samples of U^{235} in a flux of neutrons. Cesium was then precipitated out of the fission-product solution. "[The figure] shows the resulting decay curve, indicating a half-life of 2.3±0.2 sec for Cs^{142}. This value is consistent with the upper limit of 8 sec given by Wahl et al. (1962Wa36)." As mentioned in the quote, earlier Wahl et al. was only able to extract an upper limit for the half-life of ^{142}Cs (1962Wa36).

Adapted from reference (2012Ma48)

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