^{129}Pm

^{129}Pm was observed in 2004 by Xu et al. and published in the paper "First decay study of the new isotope ^{129}Pm near the proton drip line" (2004Xu05). A 232 MeV ^{40}Ca beam from the sector-focusing cyclotron in the Institute of Modern Physics in Lanzhou, China bombarded an enriched ^{92}Mo target to form ^{129}Pm in the fusion-evaporation reaction ^{92}Mo(^{40}Ca,p2n). X-rays and γ-rays were measured at the end of a helium jet transport system. "The decay curve of the 99 keV γ line gated on Nd-K$_\alpha$-X is shown in [the figure], from which the half-life of the ^{129}Pm decay was extracted to be 2.4(9) s."

Adapted from reference (2012Ma48)

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