^{159}Pm

Ichikawa et al. reported the first observation of ^{159}Pm in "β-decay half-lives of new neutron-rich rare-earth isotopes ^{159}Pm, ^{162}Sm, and ^{166}Gd" in 2005 (2005Ic02). ^{238}U targets were bombarded with 15.5 MeV protons from the JAERI tandem accelerator facility. ^{159}Pm was separated with a gas-jet coupled thermal ion source system in the JAERI-ISOL. Beta- and X/gamma-rays were measured with a sandwich-type plastic scintillator and two Ge detectors, respectively. "The half-life of ^{159}Pm was determined to be 1.5±0.2 s as a weighted average of the half-life values of 1.6±0.2, 1.5±0.4, and 1.4±0.3 for the Sm K_α x rays, and 71.8 and 261.3 keV γ rays, respectively, as shown in the inset of [the figure]."

2005Ic02 S. Ichikawa, M. Asai, K. Tsukada, H. Haba *et al.*, Phys. Rev. C **71**, 067302 (2005).

Please cite this abstract as: "FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:10.11578/frib/2279152"