^{87}Ru

Rykaczewski et al. discovered ^{87}Ru in their 1995 paper "Identification of New Nuclei at and Beyond the Proton Drip Line Near the Doubly Magic Nucleus ^{100}Sn" (1995Ry03). A 63 MeV/nucleon ^{112}Sn beam from the GANIL cyclotron complex bombarded a natural nickel target. ^{87}Ru was identified with the Alpha and LISE3 spectrometers. "The obtained data have allowed also for the identification of six other new nuclei, namely ^{103}Sb, ^{104}Sb, ^{98}In, ^{91}Pd, ^{89}Rh, and ^{87}Ru, which are clearly isolated from the neighboring heavier isotopes in the mass spectra of [the figure]." In an earlier paper, a small number of events possibly corresponding to ^{87}Ru were found, but the authors judged these findings as inconclusive (1994He28).

Adapted from reference (2012Ny02)

1994He28 M. Hencheck, R. N. Boyd, M. Hellstrom, D. J. Morrissey *et al.*, Phys. Rev. C **50**, 2219 (1994).

1995Ry03 K. Rykaczewski, R. Anne, G. Auger, D. Bazin *et al.*, Phys. Rev. C **52**, R2310 (1995).

2012Ny02 A. Nystrom and M. Thoennessen, At. Data Nucl. Data Tables **98**, 95 (2012).

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