^{114}Ru

The discovery of ^{114}Ru is credited to Leino et al. with their 1991 paper, "Independent and Cumulative Yields of Very Neutron-Rich Nuclei in 20 MeV p- and 18-41 MeV d-Induced Fission of ^{238}U" (1991Le09). A ^{238}U target was bombarded with 20 MeV protons from the Jyväskylä MC-20 cyclotron. ^{114}Ru was separated with the IGISOL isotope separator and γ- and x-rays were measured with 20 and 25% Ge detectors as well as a 1.4 cm^3 planar Ge detector. "The half-life of ^{114}Ru was determined from the decay of gamma activity in coincidence with Rh Kα x-rays. The result was 0.53$\pm$0.06 s."

Adapted from reference (2012Ny02)

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