^{72}Rb

The first identification of ^{72}Br was reported in 2017 by Suzuki et al. in the paper "Discovery of ^{72}Rb: A Nuclear Sandbank Beyond the Proton Drip Line" (2017Su31). A 345 MeV/nucleon ^{124}Xe beam from RIBF impinged on a 740 mg/cm^2 thick beryllium target. In-fight fragments were separated by BigRIPS and the ZeroDegree spectrometer and implanted in the active silicon stopper WAS3ABi. "For the half-life of the new isotope ^{72}Rb, we obtained 103(22) ns, from an upper limit of 124 ns [...], and an lower limit of 81 ns, [...]"

2017Su31 H. Suzuki, L. Sinclair, P. A. Soderstrom, G. Lorusso *et al.*, Phys. Rev. Lett. **119**, 192503 (2017).

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