

^{154}Ba

In 2017, Wu et al. discovered ^{154}Ba in “94 β -Decay Half-Lives of Neutron-Rich ^{55}Cs to ^{67}Ho : Experimental Feedback and Evaluation of the r-Process Rare-Earth Peak Formation” (2017Wu04). A 345 MeV/nucleon ^{238}U beam from RIBF was used to produce fission fragments which were separated with the BigRIPS separator and the ZeroDegree spectrometer. The nuclides were identified with the TOF-B ρ - ΔE method and their β -decay half-lives were measured with the Wide range Active Silicon-Strip Stopper Array for Beta and ion detection (WAS3ABi). The extracted half-life for ^{154}Ba was 0.053(48) s as listed in the supplemental material of the paper.

2017Wu04 J. Wu, S. Nishimura, G. Lorusso, P. Moller *et al.*, Phys. Rev. Lett. **118**, 072701 (2017).

Please cite this abstract as: “FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:[10.11578/frib/2279152](https://doi.org/10.11578/frib/2279152)”