

^{77}Co

In the 2014 paper “ β -Decay Half-Lives of $^{76,77}\text{Co}$, $^{79,80}\text{Ni}$, and ^{81}Cu : Experimental Indication of a Doubly Magic ^{78}Ni ” ^{77}Co was reported for the first time by Xu et al. (2014Xu07). A 345 MeV/nucleon ^{238}U from the RIKEN cyclotron accelerator complex was incident on a beryllium target and projectile fragments were analyzed with the BigRIPS separator and the ZeroDegree Spectrometer. The fragments were then implanted in the highly segmented beam stopper, wide-range active silicon strip stopper array for beta and ion detection (WAS3ABi). “The half-lives of 20 neutron-rich nuclei with $Z = 27-30$ have been measured at the RIBF, including five new half-lives of $^{76}\text{Co}(21.7^{+6.5}_{-4.9} \text{ ms})$, $^{77}\text{Co}(13.0^{+7.2}_{-4.3} \text{ ms})$, $^{79}\text{Ni}(43.0^{+8.6}_{-7.5} \text{ ms})$, $^{80}\text{Ni}(23.9^{+26.0}_{-17.2} \text{ ms})$, and $^{81}\text{Cu}(73.2 \pm 6.8 \text{ ms})$.”

Adapted from reference (2015Th03)

2014Xu07 Z. Y. Xu, S. Nishimura, G. Lorusso, F. Browne *et al.*, Phys. Rev. Lett. **113**, 032505 (2014).

2015Th03 M. Thoennessen, Int. J. Mod. Phys. E **24**, 1530002 (2015).

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