

## $^{117}\text{Nb}$

$^{117}\text{Nb}$  was discovered by Sumikama et al. in the 2021 paper entitled “Observation of new neutron-rich isotopes in the vicinity of  $^{110}\text{Zr}$ ” (2021Su01). The isotopes were produced by in-flight fission from a 345 MeV/nucleon  $^{238}\text{U}$  at the RIKEN Radioactive Isotope Beam Factory (RIBF) and separated and identified with the large-acceptance two-stage fragment separator BigRIPS and the ZeroDegree spectrometer. “Ten candidates for previously unreported neutron-rich isotopes were produced, namely, events corresponding to fully stripped ions of  $^{99,101}\text{Br}$ ,  $^{102}\text{Kr}$ ,  $^{105,106}\text{Rb}$ ,  $^{108}\text{Sr}$ ,  $^{110,111}\text{Y}$ ,  $^{114}\text{Zr}$ , and  $^{117}\text{Nb}$ . The  $A/Q$  values of new-isotope events were consistent with those extrapolated from other isotopes.”

Adapted from reference (2023Th03)

2021Su01 T. Sumikama, N. Fukuda, N. Inabe, D. Kameda *et al.*, Phys. Rev. C **103**, 014614 (2021).

2023Th03 M. Thoennessen, Int. J. Mod. Phys. E **32**, 2330001 (2023).

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