^{102}Kr

^{102}Kr was discovered by Sumikama et al. in the 2021 paper entitled "Observation of new neutron-rich isotopes in the vicinity of ^{110}Zr" (2021Su01). The isotopes were produced by in-flight fission from a 345 MeV/nucleon ^{238}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}Br, ^{102}Kr, ^{105,106}Rb, ^{108}Sr, ^{110,111}Y, ^{114}Zr, and ^{117}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).

Please cite this abstract as: "FRIB Nuclear Data Group, *Discovery of Nuclides Project*, Isotope Database, doi:10.11578/frib/2279152"