^{108}I

Page et al. reported the first observation of ^{108}I in the paper "Evidence for the alpha decay of ^{108}I" in 1991 (1991Pa05). A ^{54}Fe target was bombarded with a 260 MeV ^{58}Ni beam forming ^{108}I in the (p3n) fusion-evaporation reaction. Recoil products were separated with the Daresbury recoil mass spectrometer (RMS) and implanted into the Residue Implantation Detection System (RIDS) which also recorded subsequent α decays. "These l-values would suggest a half life of $\sim$50 ms for ^{108}I, assuming a reduced width of 1.5 as was measured for ^{110}I. This estimated half life would be consistent with the lower limit of 10 ms measured for these decay lines." A previous search for the proton decay of ^{108}I was not successful (1987Gi02).

Adapted from reference (2013Ka01)

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