^{117}Cs

Ravn et al. reported the first observation of ^{117}Cs in the 1972 paper "Very neutron-deficient isotopes of Cs studied by on-line isotope separator techniques" (1972Ra16). Molten lanthanum was bombarded with 600 MeV protons from the CERN synchrocyclotron. ^{117}Cs was formed in spallation reactions and identified with ISOLDE on-line isotope separator facility. "By means of the on-line β^+ counter the mass chains down to 117 were accessible for decay measurements. Half-lives were determined by means of a least-squares analysis of the experimental data. The following results were obtained for the isotopes under study (the errors represent the estimated over-all uncertainties): ^{117}Cs 8±2 s..."

Adapted from reference (2012Ma48)

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