^{102}Rb

The first observation of ^{102}Rb was described by Lhersonneau et al. in the 1995 article "First evidence for the 2^+ level in the very neutron-rich nucleus ^{102}Sr" (1995Lh03). A UC target was bombarded with 1 GeV protons from the PS booster at CERN. ^{102}Rb was identified with the General Purpose Separator at ISOLDE and activities were measured with two Ge detectors and a thin plastic scintillator. "[The figure] suggests that the 126 keV line is neither produced in the ^{102}Sr nor ^{83}Sr decays. Since such a line has not been reported in any other activities identified by us, it was assigned to the β-decay of ^{102}Rb into the 2^+ state of ^{102}Sr." In their measurement Lhersonneau et al. used the half-life value of 37 ms reported only in a conference proceeding (1987PfZX).

Adapted from reference (2012Pa21)

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