^{113}Cs p decay (18.3 μs) 1998GrZZ,1994Pa12

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	S. Lalkovski, F. G. Kondev	NDS 124, 157 (2015)	1-Aug-2014

Parent: ^{113}Cs: E=0; $J^{\pi}=(3/2^{+})$; $T_{1/2}$=18.3 μs *3*; Q(p)=973.5 *26*; %p decay=100.0

^{113}Cs-$T_{1/2}$: from 1998GrZZ, based on observed 5500 proton events. Note that 16.7 μs 7 from (1998Ba13), based on observed 600 proton events by the same group. Others: 0.9 μs +1.3-0.4 (1984Fa04), 33 μs 7 (1987Gi07), 22 μs 8 (1993HeZV), and 28 μs 7 (1995Ho26).

^{113}Cs-J^{π}: from the proposed π3/2[411] configuration, based on a comparison between the measured proton-decay $T_{1/2}$ and theoretical values.

^{113}Cs-Q(p): from 2012Wa38.

1998GrZZ: ^{113}Cs produced by ^{58}Ni(^{58}Kr,p2n) at E=230 MeV. Measured E(p), implant-decay time and spatial correlations, $T_{1/2}$.

1994Pa12: Facility: Daresbury, UK; Beam: E(^{58}Ni)=529 MeV; Target: 520 μg/cm^2 isotopically enriched in ^{58}Ni; Detectors: Daresbury Recoil Mass Sseparator, one DSSSD; Measured: E(p), E(α), implant-decay time and spatial correlations, $T_{1/2}$.

Others: 1984Fa04, 1987Gi07, 1993HeZV, 1994Pa12, 1995Ho26, 1998Ba13, 2012Wa10.

^{112}Xe Levels

E(level)	J^{π}
0.0	0^{+}

Protons (^{112}Xe)

E(p)	E(^{112}Xe)	Comments
960 *3*	0.0	E(p): From 1995Ho26. Others: 959 keV 6 (1994Pa12), 980 keV 80 (1987Gi07, 1984Fa04), 974 keV 4 (1993HeZV), and 900 keV (2012Wa10).