Adopted Levels

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	D. Abriola(a), A. A. Sonzogni	NDS 107,2423 (2006)	1-Jan-2006

S(n)=1.42×10^4 *syst*; S(p)=6.×10^2 *syst*; Q(α)=−2.9×10^3 *syst* 2012Wa38
Note: Current evaluation has used the following Q record 14592.0 SY890.0 syst-2509.0 syst 2003Au03.
ΔS(n)=780, ΔS(p)=643, ΔQ(α)=711 (2003Au03).
2002StZZ: Be(^{112}Sn,X) E=1 GeV/a. Measured $T_{1/2}$, GSI Fragment separator FRS, fragments stopped in segmented silicon strip detector.
2006Mu03, 2005Mu15, 2004Pl01, 2004Mu30, 2002La18, 1994Sc35: ^{58}Ni(^{40}Ca,p3n), measured $T_{1/2}$ by β-proton-γ(t), %εp, %p, %2p, ^{94}Pd levels.

^{94}Ag Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	(0$^+$)	26 ms *+26−9*	%ε+%β^+=100; %εp=? $T_{1/2}$: from 2002StZZ. J^π: from shell model calculations. E(level): observed only in fragmentation of ^{112}Sn.
0.0+x	(7$^+$)	0.55 s *6*	%ε=100; %εp=20 (2004Mu30) $T_{1/2}$: weighted average of 0.61 s 2 (2004Mu30), 0.59 s 2 (2004Pl01), 0.36 s 3 (2002La18), 0.42 s 5 (1994Sc35). Other: 0.45 s +20−13 (2002StZZ). J^π: level feeds (6$^+$) and (8$^+$) levels in ^{94}Pd in ε+β^+ decay. Assignment supported by shell-model calculations (2004Pl01). E(level): x ≈700 keV from shell-model calculations (2002La18).
6670 *syst*	(21$^+$)	0.40 s *4*	%ε=95.4 *7*; %εp=27 (2004Mu30); %p=4.1 *6* (2005Mu15) %2p=0.5 *3* (2006Mu03) $T_{1/2}$: weighted average of 0.47 s 8 (2004Pl01), 0.39 s 4 (2004Mu30), 0.3 s 2 (2002La18). J^π: level feeds (20$^+$) level in ^{94}Pd in ε+β^+ decay. Assignment supported by shell-model calculations (2004Pl01). E(level): This level undergoes β-delayed proton emission as well as direct emission of 1 and 2 protons. In the single proton emission, 2 levels in ^{93}Pd are fed, one at 4994 keV with a proton energy of 790 30 keV, and another at 4751 keV with a proton energy of 1010 *30* keV. Combining these numbers, a Q_p=5.78 MeV 30 is quoted by 2005Mu15 for this level. From 2003Au03, one obtains a proton separation energy of 890 keV with a systematic error of 643 keV for ^{94}Ag. Therefore, the level energy is 6670 keV with a uncertainty of 709 kev from systematics.