Adopted Levels

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Jun Chen	NDS 140, 1 (2017)	30-Sep-2015

S(n)=19120 *SY*; S(p)=1.97×10^3 *16*; Q(α)=−4.82×10^3 *16* 2012Wa38
Δ(S(n))=260 (syst,2012Wa38).
S(2n)=35660 *340* (syst), S(2p)=1370 *160*, Q(εp)=11140 *160* (2012Wa38).
Mass measurement: 2001Li56, 1977St29.
^{40}Ti produced in the following studies:
1990De43: ^{58}Ni(^{58}Ni,X) E=65 MeV/nucleon. Magnetic analysis of fragments and time-of-flight method.
1998Bh12 (also 1998Le45,1997Tr11): Ni(^{50}Cr,X) E=82.6 MeV/nucleon. Fragments were separated by LISE3 spectrometer.
1998Li46 (also 2001Li56,1997Li25): ^{9}Be(^{58}Ni,X) E=500 MeV/nucleon followed by isotopic separation by projectile fragment recoil separator.
2007Do17: Ni(^{58}Ni,X) E=74.5 MeV/nucleon. Fragments were separated by the ALPHA-LISE3 separator at the SISSI-LISE3 facility of GANIL.

^{40}Ti Levels

Cross Reference (XREF) Flags

A ^{40}Ca(π^+,π^-)

E(level)	J$^\pi$	T$_{1/2}$	XREF	Comments
0	0$^+$	52.4 ms *3*	A	%ε+%β^+=100; %εp=100 (1998Bh12,1998Li46) %β^+ delayed γ activity in ^{40}Sc <3% from integrated β strength of 99.0% *16* (1998Bh12) and 101% *5* (1998Li46). No β^+ delayed γ activity was seen by 1998Li46. 2007Do07 report a transition with Eγ=2467.3 *5* and absolute Iγ=8.5 *54* in ^{39}Ca from its first excited state. %εp: other: 2007Do17 report 95.8 *13*, which gives Iγ=4.2 *13* for γ transitions in ^{40}Sc presumably ending up feeding the ^{40}Sc ground state. T$_{1/2}$: from 2007Do17. Others: 53.5 ms *25* (2001Gi01,2001Gi02), 52.7 ms *15* (reported in 1998Bh12 as the average of 53.6 ms *6* from an independent analysis of the same data in 1997Tr11, and 51.7 ms *6* in 1997Tr11), 54 ms *2* (1998Li46, 55 ms *2* in 1997Li25), and 56 ms *+18−12* (1990De43).