Adopted Levels

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	N. Nica and B. Singh	NDS 181, 1 (2022)	9-Mar-2022

Q(β^-)=8344 *21*; S(n)=4681 *9*; S(p)=11254 *26*; Q(α)=−3560 *SY* 2021Wa16
ΔQ(α)=200 (syst,2021Wa16).
S(2n)=8008 *12*, S(2p)=25370 *500* (syst), Q(β^-n)=4875 *9* (2021Wa16).
2020Mo39 measured fine structure constant.
2015OdZZ and 2015YaZW reported the existence of an isomer that was later not confirmed by re-analysis of the data (Priv. Comm. of Sept 7, 2019 in between B. Singh and A. Yagi).

^{147}Cs Levels

E(level)	J^π	$T_{1/2}$	Comments
0.0	($3/2^+$)	0.2295 s *10*	%β^-=100; %β^-n=28.5 *20* (2020Li32) J^π: $3/2^+$[422] suggested by 1981ScZM in analogy with ^{143,145}Cs (NMR, 1979Ek02) although $1/2^+$[420] cannot be excluded. $T_{1/2}$: adopted from 2020Li32 evalution, weighted average of: 0.225 s *5* (2020Wu04), 0.234 s *14* (2017Wu04), 0.235 s *3* (1993Ru01), 0.229 s *1* (1986ReZU), 0.214(30) (1979Ri09), 0.235 s *10* (1978Ko29). Others (quoted by 2020Li32): 0.230 s *1* (1986Wa17), 0.220 s *2* (1983Re10), 0.212 s *10* (1981ShZH), 0.218 s *9* (1978Wo09), 0.22 s (1977WuZX). %β^-n: weighted average of 25.4 *32* (1979Ri09), 26.4 *29* (1986ReZU), and 30.7 *20* (1993Ru01), also adopted by 2020Li32. Other values: 43 *5* (1986Wa17, tentative); ≈27 (2010MaZS, preliminary; 2010MaZS quote 43 *5* wrongfully as originating from his evaluation). %β^-n: average neutron energy: 507 *40* (1979KrZT).