^{269}Hs α decay (9.7 s)

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	M. Gupta	ENSDF	1-Aug-2015

Parent: ^{269}Hs: E=0; $T_{1/2}$=9.7 s *+97−33*; Q(α)=9315 *22*; %α decay≈100.0
^{269}Hs-E,$T_{1/2}$,Q(α): From the ^{269}Hs Adopted Levels In 2005Gu33.
See ^{277}112 Adopted Levels In 2005Gu33 for details. Other: 1996La12.

^{265}Sg Levels

1999Ar21 proposed two levels At 0+x and 60+x (x=330 *400*) based two ^{277}112 α chains reported by 1996Ho13. One of these chains was subsequently retracted by 2002Ho11.

E(level)	J^π	$T_{1/2}$	Comments
x	$(1/2^+)$	14.4 s *+37−25*	%α≥65 *16*; %SF≤35 *16* (1998Tu01) E(level),$T_{1/2}$: from the Adopted Levels. J^π: from 1997Mo25 for g.s. E(level),$T_{1/2}$,%α,%SF: from the Adopted Levels.
152 *71*	$(9/2^+)$	8.5 s *+26−16*	E(level): from ΔE(α). E(level),$T_{1/2}$: from the Adopted Levels. J^π: based on decay systematics (evaluators).

α radiations

Eα	E(level)	Iα[†]	Comments
8840	152	≈9	Eα: 8.840 MeV *50* from 2012Ha05. 2008Du09 value of Eα =8.830 MeV *60* As weighted average (normalised residual method) of 2 events compares well with observations.
8690	x	≈91	Eα: 8.690 MeV *50* from 2012Ha05. 2008Du09 value of Eα=8.685 MeV *190* As weighted average (normalised residual method) of 32 events compares well with observations.

[†] For absolute intensity per 100 decays, multiply by ≈1.0.