^{265}Hs α decay (0.75 ms) 1999He11

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Agda Artna-cohen	NDS 88, 155 (1999)	31-Jul-1999

Parent: ^{265}Hs: E≥300; $T_{1/2}$=0.75 ms *+17−12*; Q(α)=10586 *15*; %α decay≈100.0

^{208}Pb(^{58}Fe,n), excit. Delayed α − α coincidences observed showing four generations of α decays: ^{265}Hs – ^{261}Sg – ^{257}Rf – ^{253}No. Other: 1997Ho13, 1995Ho03.

^{208}Pb(^{58}Fe,n) 5.04 MeV/nucleon; three α-event chains were observed decaying to ^{253}No (1987Mu15,1984Mu17).

^{261}Sg Levels

E(level)[†]
0.0
156 *21*
212 *21*
396 *21*

[†] From Eα (1999He11), based on the assumption that the highest energy α group from 0.75 ms ^{265}Hs goes to the g.s. of ^{261}Sg.

α radiations

Eα	E(level)	Iα[†#]	HF[‡]
10336 *15*	396		
10517 *15*	212		
10572 *15*	156	≈63	≈9
10726 *15*	0.0		

[†] From 1999He11.
[‡] $r_0(^{261}Sg)$=1.46.
[#] For absolute intensity per 100 decays, multiply by ≈1.