

^{265}Hs α decay (2.0 ms) 1999He11

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

Parent: ^{265}Hs : $E=0.0$; $T_{1/2}=2.0$ ms +3-2; $Q(\alpha)=10586$ 15; % α decay \approx 100.0

^{208}Pb ($^{58}\text{Fe},n$), excit. Delayed $\alpha - \alpha$ coincidences observed showing four generations of α decays: $^{265}\text{Hs} - ^{261}\text{Sg} - ^{257}\text{Rf} -$

^{253}No . Other: 1997Ho13, 1995Ho03.

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

 ^{261}Sg Levels

E(level)[†]

0.0
56 21
127 21
185 21

[†] From $E\alpha$ (1999He11), based on the assumption that the highest energy α group from 2.0 ms ^{265}Hs goes to the g.s. of ^{261}Sg .

 α radiations

<u>$E\alpha$</u>	<u>E(level)</u>	<u>$I\alpha^{\dagger\#}$</u>	<u>HF[‡]</u>
10244 15	185		
10301 15	127	≈ 90	≈ 4
10371 15	56		
10426 15	0.0		

[†] From 1999He11.

[‡] $r_0(^{261}\text{Sg})=1.46$.

[#] For absolute intensity per 100 decays, multiply by ≈ 1 .