

$^{270}\text{Ds}$   $\alpha$  decay (0.20 ms) [2001Ho06,2012Ac04](#)

Type	History		Literature Cutoff Date
	Author	Citation	
Full Evaluation	Balraj Singh	ENSDF	15-Dec-2021

Parent:  $^{270}\text{Ds}$ :  $E=0$ ;  $J^\pi=0^+$ ;  $T_{1/2}=0.20$  ms  $+7-4$ ;  $Q(\alpha)=11117$  28;  $\% \alpha$  decay  $\approx 100.0$

$^{270}\text{Ds}$ - $T_{1/2}$ : From  $^{270}\text{Ds}$  Adopted Levels.

$^{270}\text{Ds}$ - $Q(\alpha)$ : From [2021Wa16](#).

 $^{266}\text{Hs}$  Levels

E(level)	$J^\pi$	$T_{1/2}$	Comments
0	$0^+$	2.97 ms $+78-51$	$T_{1/2}$ : from Adopted Levels.

 $\alpha$  radiations

Assuming HF=1 for g.s. to g.s.  $\alpha$  transition, deduced  $r_0(^{266}\text{Hs})=1.472$  16.

$E_\alpha$	E(level)	Comments
$11.03 \times 10^3$ 5	0	$E_\alpha$ : from <a href="#">2001Ho06</a> . Assumed as g.s. to g.s. $\alpha$ transition. Other: preliminary $Q(\alpha)=11.25$ MeV ( <a href="#">2012Ac04</a> ), fully analyzed results of this work are not yet available.