

Adopted Levels, Gammas

Type	History		Literature Cutoff Date
	Author	Citation	
Full Evaluation	E. A. Mccutchan	ENSDF	2-Jun-2021

$Q(\beta^-)=3.2\times 10^3$ 3; $S(n)=5.11\times 10^3$ 33; $S(p)=1.01\times 10^4$ 3; $Q(\alpha)=-1.5\times 10^3$ 3 [2021Wa16](#)
 α : [Additional information 1](#).

 ^{169}Dy LevelsCross Reference (XREF) Flags

A $^9\text{Be}(^{238}\text{U},\text{F}\gamma)$

<u>E(level)[†]</u>	<u>J^{π}</u>	<u>T_{1/2}</u>	<u>XREF</u>	<u>Comments</u>
0.0	(5/2) ⁻	39 s 8	A	% β^- =100 J^π : $\log ft \approx 5.4$ to 7/2 ⁻ 7/2[523] g.s. of ^{169}Ho ; 5/2[512] assignment for 103rd neutron orbital is well established in this mass region. T _{1/2} : from 1990Ch34 . Other: 78 s 37 (2017Wu04). J^π : from systematics of (1/2 ⁻) isomers in heavier N=103 isotones. T _{1/2} : from 166.1 γ (t) in $^9\text{Be}(^{238}\text{U},\text{f}\gamma)$.
166.1 3	(1/2) ⁻	1.26 μs 17	A	

[†] From E γ .

 $\gamma(^{169}\text{Dy})$

<u>E_i(level)</u>	<u>J_i^{π}</u>	<u>E_{γ}</u>	<u>I_{γ}</u>	<u>E_f</u>	<u>J_f^{π}</u>	<u>Mult.</u>	<u>α</u>	<u>Comments</u>
166.1	(1/2) ⁻	166.1 3	100	0.0	(5/2) ⁻	[E2]	0.443 7	$\alpha(\text{K})=0.275$ 4; $\alpha(\text{L})=0.1297$ 21; $\alpha(\text{M})=0.0306$ 5; $\alpha(\text{N})=0.00690$ 11; $\alpha(\text{O})=0.000858$ 14 $\alpha(\text{P})=1.255\times 10^{-5}$ 19 B(E2)(W.u.)=0.045 6

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