

$^{118}\text{Sn}(^{164}\text{Dy}, ^{116}\text{Sn}\gamma)$ 1998Wu04

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 109, 1103 (2008)	1-Mar-2008

E=790 MeV; GAMMASPHERE array (100 Ge detectors); CHICO array of position-sensitive avalanche counters (to detect both Dy-like and recoiling Sn-like particles); measured E_γ , $\gamma\gamma$ coin.

 ^{166}Dy Levels

E(level) [†]	J ^π [‡]	Comments
0 [#]	0 ⁺	
76.6 [#]	2 ⁺	E(level): rounded value from Adopted Levels.
253.6 [#]	4 ⁺	
527.6 [#]	6 ⁺	
892.6 [#]	8 ⁺	
1341.6 [#]	10 ⁺	
1868.6 [#]	12 ⁺	
2467.6 [#]	14 ⁺	
3119.6? [#]	(16 ⁺)	

[†] From E_γ assuming E=76.6 from Adopted Levels for the first excited state.

[‡] Authors' values based on apparent band structure.

[#] Band(A): $K^\pi=0^+$ g.s. band.

 $\gamma(^{166}\text{Dy})$

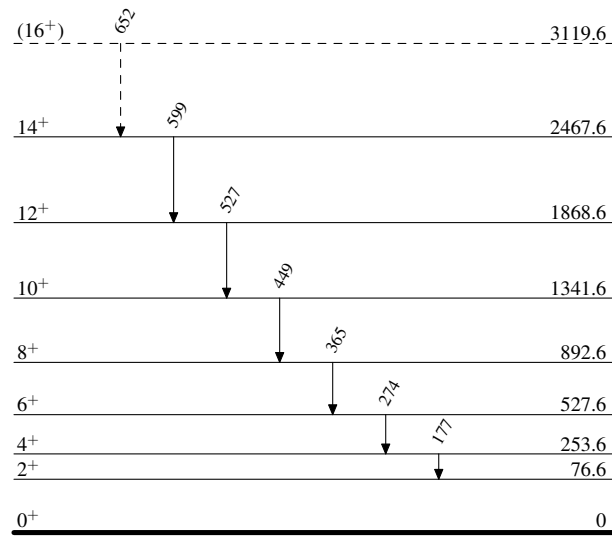
E_γ [†]	E_i (level)	J_i^π	E_f	J_f^π
177	253.6	4 ⁺	76.6	2 ⁺
274	527.6	6 ⁺	253.6	4 ⁺
365	892.6	8 ⁺	527.6	6 ⁺
449	1341.6	10 ⁺	892.6	8 ⁺
527	1868.6	12 ⁺	1341.6	10 ⁺
599	2467.6	14 ⁺	1868.6	12 ⁺
652 [‡]	3119.6?	(16 ⁺)	2467.6	14 ⁺

[†] From 1998Wu04; uncertainty unstated by authors.

[‡] Placement of transition in the level scheme is uncertain.

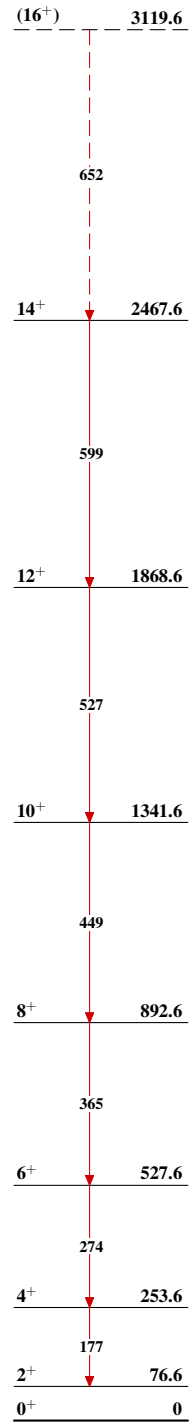
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Legend

Level Scheme-----► γ Decay (Uncertain) $^{166}_{66}\text{Dy}_{100}$

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Band(A): $K^\pi=0^+$ g.s.
band

 $^{166}_{66}\text{Dy}_{100}$