

$^{118}\text{Sn}(^{162}\text{Dy}, ^{164}\text{Dy})$ 1998Wu04

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh and Jun Chen [#]		NDS 147, 1 (2018)	30-Nov-2017

E=780 MeV. Measured prompt γ rays in ^{164}Dy produced by 2-neutron transfer reaction, using GAMMASPHERE array with 100 Ge detectors.

 ^{164}Dy Levels

<u>E(level)[†]</u>	<u>$J^{\pi\ddagger}$</u>	<u>E(level)[†]</u>	<u>$J^{\pi\ddagger}$</u>	<u>E(level)[†]</u>	<u>$J^{\pi\ddagger}$</u>	<u>E(level)[†]</u>	<u>$J^{\pi\ddagger}$</u>
0.0 [#]	0 ⁺	501.3 [#]	6 ⁺	1745.8 [#]	12 ⁺	3528.7 [#]	18 ⁺
73.4 [#]	2 ⁺	843.7 [#]	8 ⁺	2289.6 [#]	14 ⁺	4212.3 [#]	20 ⁺
242.2 [#]	4 ⁺	1261.3 [#]	10 ⁺	2886.0 [#]	16 ⁺		

[†] From E γ data.

[‡] g.s. band member.

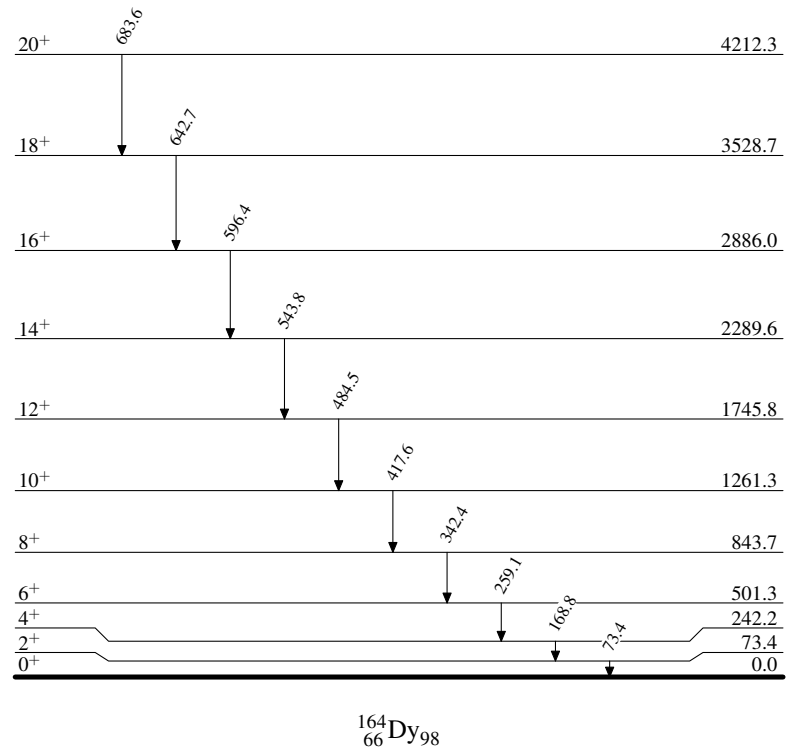
[#] Band(A): g.s. band.

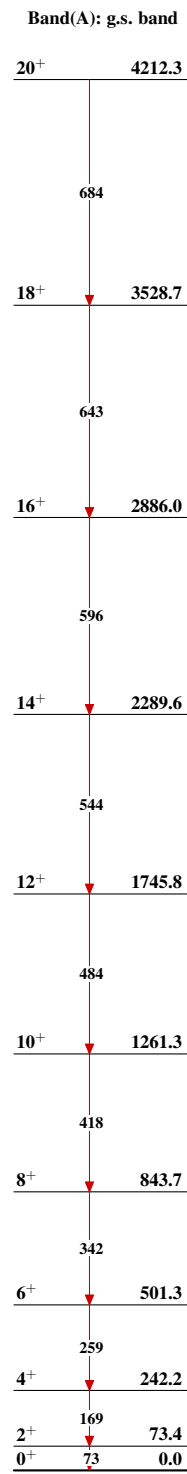
 $\gamma(^{164}\text{Dy})$

<u>Eγ</u>	<u>E_i(level)</u>	<u>J^{π}_i</u>	<u>E_f</u>	<u>J^{π}_f</u>
73.4	73.4	2 ⁺	0.0	0 ⁺
168.8	242.2	4 ⁺	73.4	2 ⁺
259.1	501.3	6 ⁺	242.2	4 ⁺
342.4	843.7	8 ⁺	501.3	6 ⁺
417.6	1261.3	10 ⁺	843.7	8 ⁺
484.5	1745.8	12 ⁺	1261.3	10 ⁺
543.8	2289.6	14 ⁺	1745.8	12 ⁺
596.4	2886.0	16 ⁺	2289.6	14 ⁺
642.7	3528.7	18 ⁺	2886.0	16 ⁺
683.6	4212.3	20 ⁺	3528.7	18 ⁺

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Level Scheme



$^{118}\text{Sn}(^{162}\text{Dy}, ^{164}\text{Dy})$ 1998Wu04 $^{164}_{66}\text{Dy}_{98}$