Adopted Levels, Gammas

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	A. A. Sonzogni	NDS 93,599 (2001)	1-Dec-2000

Q(β^-)=−11961 *12*; S(n)=12472 *15*; S(p)=3.44×10^3 *6*; Q(α)=2.79×10^3 *3* 2012Wa38
Note: Current evaluation has used the following Q record −11709 syst 12505 syst 3265 syst 2349 syst 1995Au04.
ΔQ(β^-)=718 keV.
ΔS(n)=643 keV.
ΔS(p)=566 keV.
ΔQ(α)=568 keV.
Theory: 1996La03, 1988Dr01.
1986Wi15: ^{92}Mo(^{56}Fe,2p2n) E=245 MeV. Observed (Tb K x ray)p.
1986Re11: ^{35}Cl on ^{112}Sn. Measured (K x ray)γ, ms.
All data, except for the g.s., are from ^{96}Ru(^{52}Cr,2p2nγ) 1987Go10.

^{144}Dy Levels

E(level)	J$^\pi$[†]	$T_{1/2}$	Comments
0.0[‡]	0$^+$	9.1 s *4*	%ε+%β^+=100; %εp=? $T_{1/2}$: weighted average of 9.0 s *7* (1986Re11), 9.1 s *5* (1986Wi15), 9 s *1* (1987Pl05).
492.5[‡] *3*	(2$^+$)		
1165.0[‡] *5*	(4$^+$)		
1916.6[‡] *6*	(6$^+$)		
2023.1[#&] *6*			
2230.4[#&] *7*			
2497.8[#] *8*			
2565.5[‡] *6*	(8$^+$)		
2817.4[#] *8*			
3117.0[‡&] *7*			
3175.0[@&] *7*			
3655.7[‡&] *8*			
3936.9[@&] *8*			
4335.2[‡] *9*			
4602.1[@] *9*			

[†] From 1987Go10 based upon systematics of even-even nuclei.
[‡] Band(A): g.s. band.
[#] Band(B): side-band 1.
[@] Band(C): side-band 2.
[&] Level energy uncertain. Sequence of placement in level scheme for the following pairs of transitions is uncertain: 858.1γ, 207.3γ; 551.5γ, 538.7γ; and 609.5γ, 761.9γ.

γ(^{144}Dy)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π
492.5	(2$^+$)	492.5 *3*	100	0.0	0$^+$
1165.0	(4$^+$)	672.5 *3*	100	492.5	(2$^+$)
1916.6	(6$^+$)	751.6 *3*	100	1165.0	(4$^+$)
2023.1		858.1 *4*	100	1165.0	(4$^+$)
2230.4		207.3 *3*	100	2023.1	

Continued on next page (footnotes at end of table)

Adopted Levels, Gammas (continued)

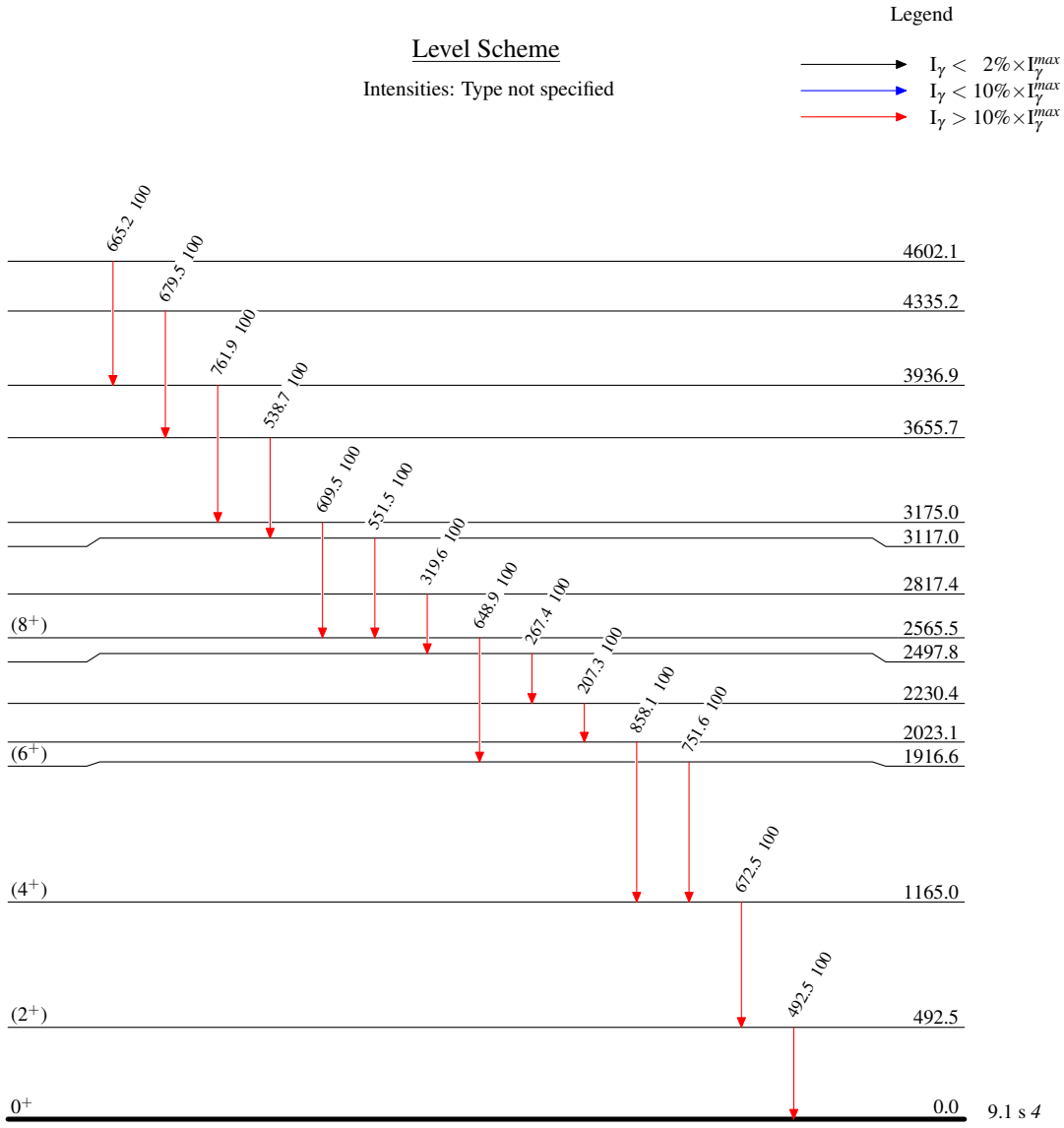
$\gamma(^{144}Dy)$ (continued)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	E_i(level)	E_γ	I_γ	E_f
2497.8		267.4 *3*	100	2230.4		3655.7	538.7 *3*	100	3117.0
2565.5	(8^+)	648.9 *3*	100	1916.6	(6^+)	3936.9	761.9 *4*	100	3175.0
2817.4		319.6 *3*	100	2497.8		4335.2	679.5 *5*	100	3655.7
3117.0		551.5 *3*	100	2565.5	(8^+)	4602.1	665.2 *4*	100	3936.9
3175.0		609.5 *3*	100	2565.5	(8^+)				

Adopted Levels, Gammas

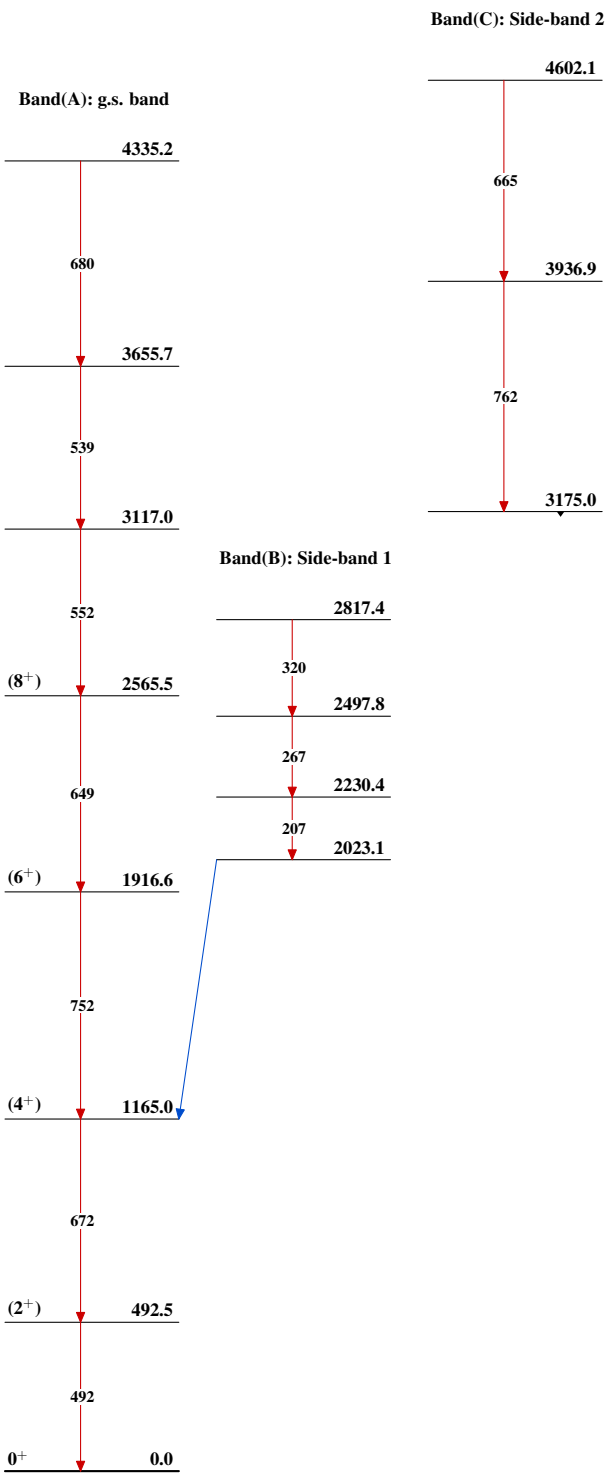
Level Scheme

Intensities: Type not specified



$^{144}_{66}Dy_{78}$

Adopted Levels, Gammas



$^{144}_{66}Dy_{78}$