Adopted Levels, Gammas

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	T. D. Johnson, D. Symochko(a), M. Fadil(b), and J. K. Tuli	NDS 112,1949 (2011)	1-Jun-2010

Q(β^-)=−1.29×10^4 *syst*; S(n)=1.28×10^4 *syst*; S(p)=2.9×10^3 *syst*; Q(α)=3.1×10^3 *syst* 2012Wa38
Note: Current evaluation has used the following Q record −1.26E+4 SY1.27E+4 SY2.6E+3 SY3.4E+3 syst 2011AuZZ.
Uncertainties associated with these Q values are: ΔQ(β^-)=6, ΔS(n)=8, ΔS(p)=7, ΔQ(α)=8.
Q(β^-n)=−2.37×10^4 *9* (syst.), Q(εp)=−2.37×10^4 *9* (syst.) 2011AuZZ.
Values in 2003Au03: Q(β^-)=−1.25×10^4 *6*, S(n)=1.27×10^4 *15* (syst.), S(p)=2.7×10^3 *4* (syst.), Q(α)=3.4×10^3 *4* (syst.), Q(β^-n)=−2.37×10^4 *6* (syst.), Q(εp)=6.0×10^3 *4* (syst.).
Theory, calculations: 1998Ce01, 1996La03.
2003Au03 value: Q(β-)=1.25×10^4 syst, S(p)=2.7×10^3 syst.

^{142}Dy Levels

Cross Reference (XREF) Flags

A ^{92}Mo(^{54}Fe,2p2nγ)

E(level)	J$^\pi$ †	$T_{1/2}$	XREF	Comments
0.0‡	0$^+$	2.3 s *3*	A	%ε+%β^+=100; %εp=0.06 *3* (1991Fi03) Delayed proton emission from observation of p-K x ray(Tb) coin, %ε=10, %β^+=90 (1991Fi03,1988GiZV). $T_{1/2}$: from 1991Fi03 (preliminary results 1988GiZV), 1986Wi15.
315.9‡ *4*	(2$^+$)		A	
798.9‡ *6*	(4$^+$)		A	
1387.3‡ *7*	(6$^+$)		A	
2010.6‡ *9*	(8$^+$)		A	
2639.3? *10*			A	
3241.2? *11*			A	

† Syst for collective bands.
‡ Band(A): g.s. band.

γ(^{142}Dy)

E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π
315.9	(2$^+$)	315.9 *4*	100	0.0	0$^+$
798.9	(4$^+$)	483.0 *4*	100	315.9	(2$^+$)
1387.3	(6$^+$)	588.4 *4*	100	798.9	(4$^+$)
2010.6	(8$^+$)	623.3 *5*	100	1387.3	(6$^+$)
2639.3?		628.7 *5*	100	2010.6	(8$^+$)
3241.2?		601.9 *5*	100	2639.3?	

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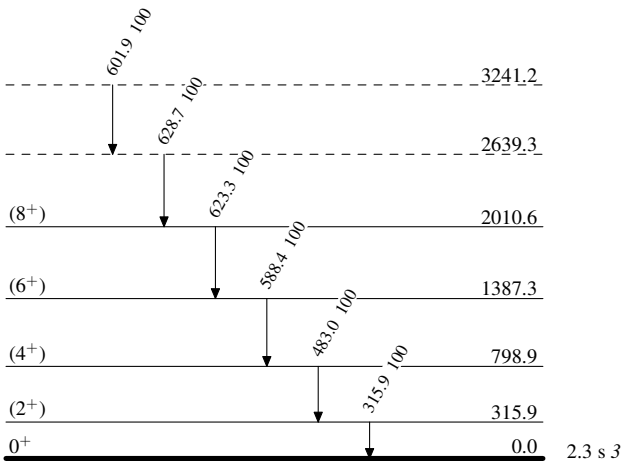
Level Scheme

Intensities: Relative photon branching from each level



$^{142}_{66}Dy_{76}$

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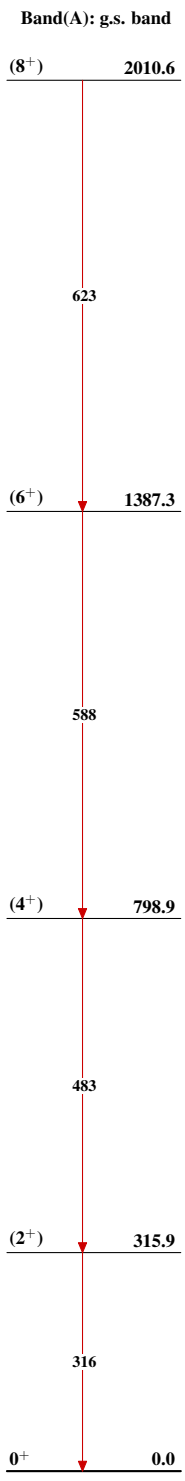

$^{142}_{66}Dy_{76}$