^{161}Dy(^{61}Ni,^{60}Niγ) 1995Cr05

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 195,1 (2024)	19-Sep-2023

Additional information 1.
(^{61}Ni,^{60}Ni) at 270 MeV. Measured particle-γ coincidences in Ge detector array.

^{162}Dy Levels

See ^{162}Dy Adopted Levels for band assignments.

E(level)†	Jπ	E(level)†	Jπ	E(level)†	Jπ	E(level)†	Jπ
0	0^+	1182.1	5^+	1636.	7^-	1989.	8^+
80.7	2^+	1296.	4^-	1670.2	8^+	2088.6	10^+
264.9	4^+	1324.6	6^+	1759.	6^+	2331.	11^-
547.5	6^+	1374.3	10^+	1845.	8^-	2336.	11^+
920.2	8^+	1407.	5^-	1877.	9^+	2492.6	14^+
963.3	3^+	1490.4	7^+	1901.1	12^+	3145.2?‡	16^+
1061.1	4^+	1527.5	6^-	1958.	9^-		

† From γ energies.
‡ 2002Ju08 show the 16^+ member of the g.s. band as deexcited by a 647.0 γ. The evaluator has chosen to show this level energy and the deexciting γ as questionable.

γ(^{162}Dy)

Eγ	Iγ	Ei(level)	J_i^π	E_f	J_f^π	Eγ	Iγ	Ei(level)	J_i^π	E_f	J_f^π
(80.7)		80.7	2^+	0	0^+	925.	<0.8	1845.	8^-	920.2	8^+
184.2	100.0 *3*	264.9	4^+	80.7	2^+	943.0	2.5 *3*	1490.4	7^+	547.5	6^+
282.6	94.5 *4*	547.5	6^+	264.9	4^+	957.	<1.8	2331.	11^-	1374.3	10^+
372.7	79.4 *3*	920.2	8^+	547.5	6^+	957.2	5.3 *9*	1877.	9^+	920.2	8^+
454.1	45.9 *1*	1374.3	10^+	920.2	8^+	962.	<1.8	2336.	11^+	1374.3	10^+
526.8	30.5 *1*	1901.1	12^+	1374.3	10^+	980.3	<1.0	1527.5	6^-	547.5	6^+
570.4	3.2 *2*	1490.4	7^+	920.2	8^+	1031.	<0.8	1296.	4^-	264.9	4^+
591.5	4.2 *2*	2492.6	14^+	1901.1	12^+	1038.	<0.8	1958.	9^-	920.2	8^+
634.9	3.5 *3*	1182.1	5^+	547.5	6^+	1059.1	1.7 *2*	1324.6	6^+	264.9	4^+
652.6‡	0.7 *1*	3145.2?	16^+	2492.6	14^+	1089.	<1.0	1636.	7^-	547.5	6^+
698.4	2.3 *2*	963.3	3^+	264.9	4^+	1127.6†‡	4.3 *3*	1670.2	8^+	547.5	6^+
714.3	2.5 *2*	2088.6	10^+	1374.3	10^+	1142.	<1.6	1407.	5^-	264.9	4^+
750.0	3.2 *3*	1670.2	8^+	920.2	8^+	1442.	<0.5	1989.	8^+	547.5	6^+
778.0	2.5 *3*	1324.6	6^+	547.5	6^+	1494.	<0.7	1759.	6^+	264.9	4^+
796.2	2.3 *4*	1061.1	4^+	264.9	4^+						

† Poor energy fit. Also, the γ branching from this level implied by this placement differs from the adopted branching. Thus, the evaluator has shown this γ as questionable.
‡ Placement of transition in the level scheme is uncertain.

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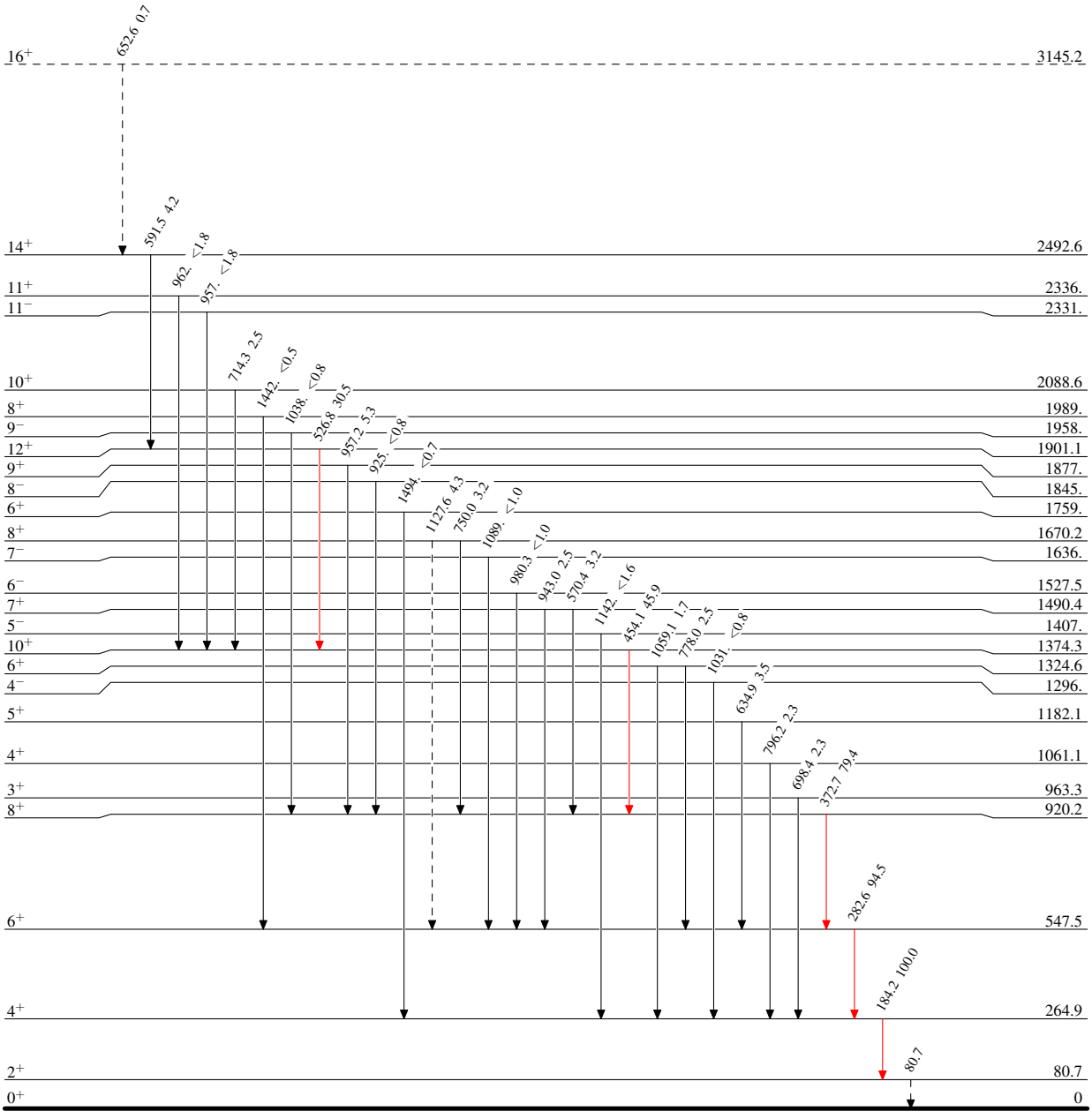
Level Scheme

Intensities: Relative I_γ

Legend

- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$
- γ Decay (Uncertain)



$^{162}_{66}Dy_{96}$