

$^{89}\text{Y}(\text{p,d}\gamma)$ **2012Ro42**

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. A. McCutchan and A. A. Sonzogni		NDS 115, 135 (2014)	1-Nov-2013

E(p)=25 MeV. Measured E_γ , I_γ , deuteron- γ coincidences using the LIBERACE array consisting of 5 Compton-suppressed HPGe Clover detectors for γ rays and the STARS array consisting of two segmented silicon detectors (24 rings and 8 sectors per detector) arranged in a ΔE -E telescope for particles.

 ^{88}Y Levels

E(level) [†]	J^π [‡]	Yield [#]	E(level) [†]	J^π [‡]	Yield [#]	E(level) [†]	J^π [‡]	Yield [#]
0.0	4 ⁻		842.5 3	(5) ⁺		1558.9 6		4.5 13
231.83 6	5 ⁻	100	983.91 24	(4) ⁺		1569.8 5		22.1 12
392.6 5	1 ⁺		1127.8 6	3 ⁻ ,4 ⁻ ,5 ⁻	1.4 4	1701.7 3	3 ⁺ ,4 ⁺	9.4 21
706.7 5	2 ⁻	1.5 4	1220.2 5	(0,1) ⁺	22 2	1962.5 4		3.0 6
714.7 3	(6) ⁺		1274.7 5	(1,2) ⁺	25 2			
765.8 5	(0) ⁺	11 1	1283.2 4	(3,4,5) ⁺	1.1 7			

[†] From a least-squares fit to E_γ , by evaluator.

[‡] From the Adopted Levels.

[#] Relative to Yield=100 for the 232-keV level.

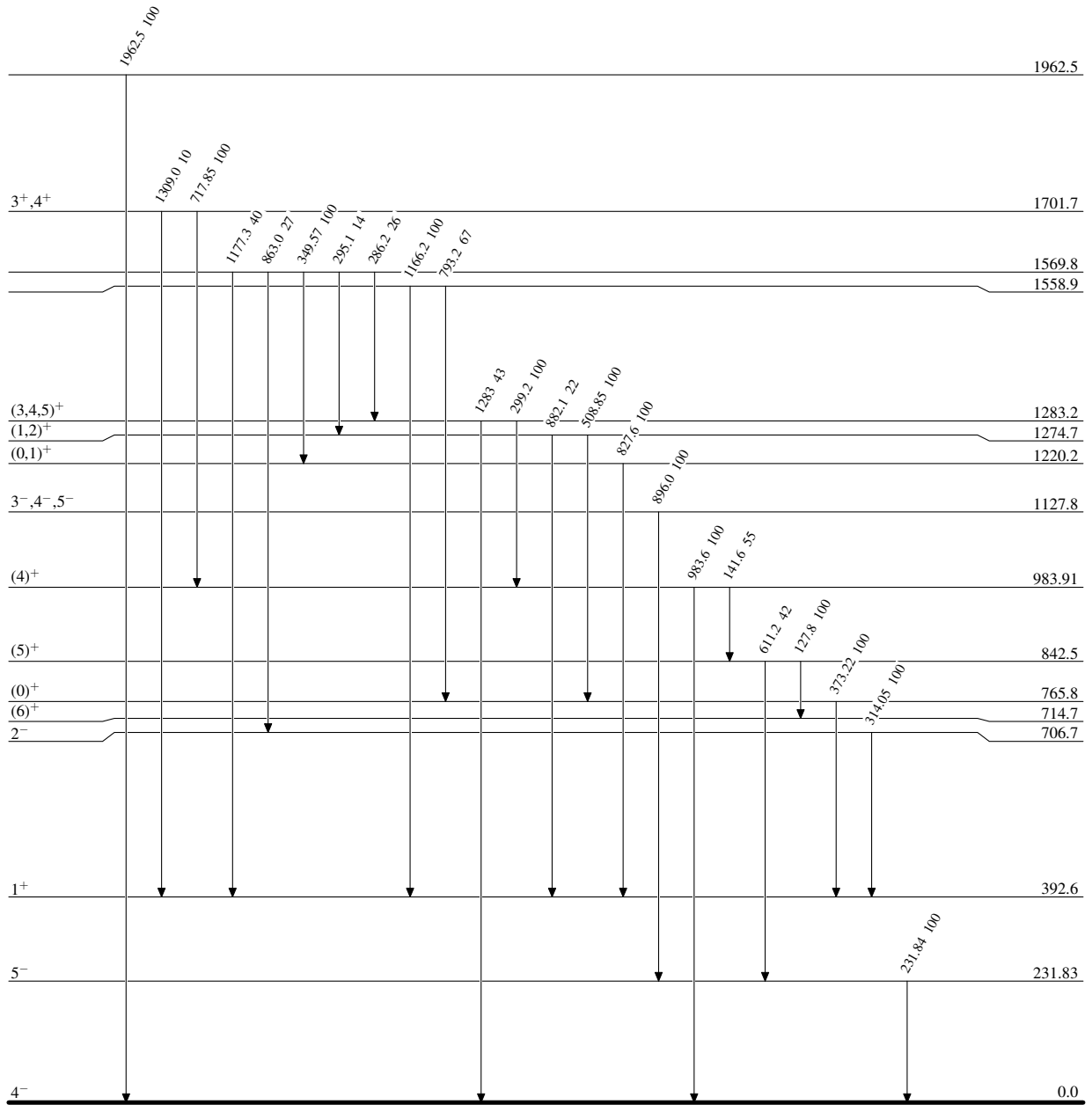
 $\gamma(^{88}\text{Y})$

$E_i(\text{level})$	J_i^π	E_γ	I_γ	E_f	J_f^π
231.83	5 ⁻	231.84 6	100	0.0	4 ⁻
706.7	2 ⁻	314.05 15	100	392.6	1 ⁺
765.8	(0) ⁺	373.22 15	100	392.6	1 ⁺
842.5	(5) ⁺	127.8 2	100 14	714.7	(6) ⁺
		611.2 4	42 18	231.83	5 ⁻
983.91	(4) ⁺	141.6 2	55 5	842.5	(5) ⁺
		983.6 3	100 14	0.0	4 ⁻
1127.8	3 ⁻ ,4 ⁻ ,5 ⁻	896.0 6	100	231.83	5 ⁻
1220.2	(0,1) ⁺	827.6 2	100	392.6	1 ⁺
1274.7	(1,2) ⁺	508.85 9	100 6	765.8	(0) ⁺
		882.1 3	22 3	392.6	1 ⁺
1283.2	(3,4,5) ⁺	299.2 3	100 27	983.91	(4) ⁺
		1283 1	43 27	0.0	4 ⁻
1558.9		793.2 8	67 26	765.8	(0) ⁺
		1166.2 5	100 20	392.6	1 ⁺
1569.8		286.2 8	26 4	1283.2	(3,4,5) ⁺
		295.1 3	14 3	1274.7	(1,2) ⁺
		349.57 8	100 8	1220.2	(0,1) ⁺
		863.0 4	27 5	706.7	2 ⁻
		1177.3 3	40 7	392.6	1 ⁺
1701.7	3 ⁺ ,4 ⁺	717.85 20	100 12	983.91	(4) ⁺
		1309.0 4	10 6	392.6	1 ⁺
1962.5		1962.5 4	100	0.0	4 ⁻

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Level Scheme

Intensities: Relative photon branching from each level

 $^{88}_{39}\text{Y}_{49}$