

$^{134}\text{Xe}(\text{n},\text{n}'\gamma)$ 1997McZZ

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	A. A. Sonzogni	NDS 103, 1 (2004)	31-Jul-2004

Measured $\gamma\gamma$ -coin. preliminary results published in conference proceedings, experimental details were not given.

 ^{134}Xe Levels

E(level) [†]	J ^π [†]	Comments
0.0	0 ⁺	
847.041	2 ⁺	
1613.77	2 ⁺	
1636.24	0 ⁺	
1731.16	4 ⁺	
1919.60	3 ⁺	
1947		
1965.5	7 ⁻	
2082	(4 ⁺)	
2116.4	2,3,4	
2136.61	5 ⁺	See Adopted Levels section regarding this level.
2207.93		
2262.4	2 ⁺	
2272.01	4 ⁺	
2294.2		
2302.25	(3,4 ⁺)	
2352.97	4 ⁺	
2389.2	(1)	
2408.50	(5 ⁺)	
2417.4	(1,2,3,4)	
2547.55	3 ⁺ ,4 ⁺ ,5 ⁺	
2560.6	2 ⁺	
2580.4		
2588.46	4 ⁺	
2653.90	3 ⁽⁺⁾	
2772.90	(3,4 ⁺)	
2867.37	4 ⁺	

[†] As given by 1997McZZ.

 $\gamma(^{134}\text{Xe})$

E_γ [†]	$E_i(\text{level})$	J_i^π	E_f	J_f^π	E_γ [†]	$E_i(\text{level})$	J_i^π	E_f	J_f^π
135.399	2272.01	4 ⁺	2136.61	5 ⁺	433.35	2352.97	4 ⁺	1919.60	3 ⁺
139.03	2547.55	3 ⁺ ,4 ⁺ ,5 ⁺	2408.50	(5 ⁺)	458.92	2867.37	4 ⁺	2408.50	(5 ⁺)
152.124	2560.6	2 ⁺	2408.50	(5 ⁺)	468.24	2082	(4 ⁺)	1613.77	2 ⁺
162.35	2082	(4 ⁺)	1919.60	3 ⁺	488.88	2408.50	(5 ⁺)	1919.60	3 ⁺
188.47	1919.60	3 ⁺	1731.16	4 ⁺	514.40	2867.37	4 ⁺	2352.97	4 ⁺
217.0	2136.61	5 ⁺	1919.60	3 ⁺	540.825	2272.01	4 ⁺	1731.16	4 ⁺
234.3	1965.5	7 ⁻	1731.16	4 ⁺	570.75	2302.25	(3,4 ⁺)	1731.16	4 ⁺
235.471	2588.46	4 ⁺	2352.97	4 ⁺	595.362	2867.37	4 ⁺	2272.01	4 ⁺
278.80	2867.37	4 ⁺	2588.46	4 ⁺	621.790	2352.97	4 ⁺	1731.16	4 ⁺
319.81	2867.37	4 ⁺	2547.55	3 ⁺ ,4 ⁺ ,5 ⁺	627.96	2547.55	3 ⁺ ,4 ⁺ ,5 ⁺	1919.60	3 ⁺
350.96	2082	(4 ⁺)	1731.16	4 ⁺	677.34	2408.50	(5 ⁺)	1731.16	4 ⁺
405.451	2136.61	5 ⁺	1731.16	4 ⁺	730.74	2867.37	4 ⁺	2136.61	5 ⁺
411.00	2547.55	3 ⁺ ,4 ⁺ ,5 ⁺	2136.61	5 ⁺	739.18	2352.97	4 ⁺	1613.77	2 ⁺

Continued on next page (footnotes at end of table)

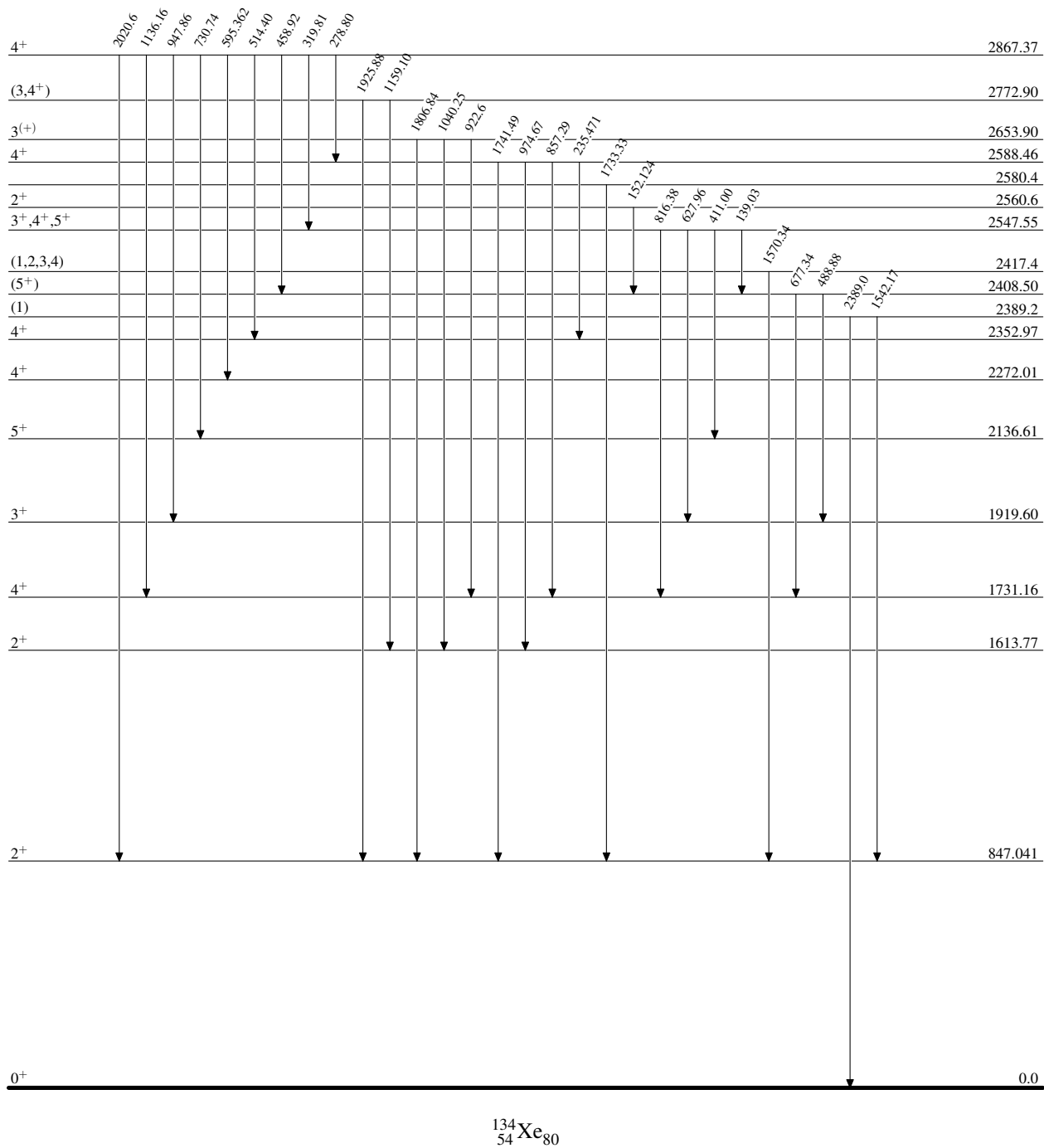
$^{134}\text{Xe}(\text{n},\text{n}'\gamma)$ **1997McZZ (continued)** $\gamma(^{134}\text{Xe})$ (continued)

$E_\gamma^\dagger$	$E_i(\text{level})$	J_i^π	E_f	J_f^π	$E_\gamma^\dagger$	$E_i(\text{level})$	J_i^π	E_f	J_f^π
766.68	1613.77	2 ⁺	847.041	2 ⁺	1360.9	2207.93		847.041	2 ⁺
789.22	1636.24	0 ⁺	847.041	2 ⁺	1415.34	2262.4	2 ⁺	847.041	2 ⁺
816.38	2547.55	3 ⁺ , 4 ⁺ , 5 ⁺	1731.16	4 ⁺	1447.19	2294.2		847.041	2 ⁺
847.025	847.041	2 ⁺	0.0	0 ⁺	1455.24	2302.25	(3, 4 ⁺)	847.041	2 ⁺
857.29	2588.46	4 ⁺	1731.16	4 ⁺	1542.17	2389.2	(1)	847.041	2 ⁺
884.090	1731.16	4 ⁺	847.041	2 ⁺	1570.34	2417.4	(1, 2, 3, 4)	847.041	2 ⁺
922.6	2653.90	3 ⁽⁺⁾	1731.16	4 ⁺	1613.80	1613.77	2 ⁺	0.0	0 ⁺
947.86	2867.37	4 ⁺	1919.60	3 ⁺	1733.33	2580.4		847.041	2 ⁺
974.67	2588.46	4 ⁺	1613.77	2 ⁺	1741.49	2588.46	4 ⁺	847.041	2 ⁺
1040.25	2653.90	3 ⁽⁺⁾	1613.77	2 ⁺	1806.84	2653.90	3 ⁽⁺⁾	847.041	2 ⁺
1072.55	1919.60	3 ⁺	847.041	2 ⁺	1925.88	2772.90	(3, 4 ⁺)	847.041	2 ⁺
1099.77	1947		847.041	2 ⁺	1946.85	1947		0.0	0 ⁺
1136.16	2867.37	4 ⁺	1731.16	4 ⁺	2020.6	2867.37	4 ⁺	847.041	2 ⁺
1159.10	2772.90	(3, 4 ⁺)	1613.77	2 ⁺	2262.9	2262.4	2 ⁺	0.0	0 ⁺
1269.39	2116.4	2, 3, 4	847.041	2 ⁺	2389.0	2389.2	(1)	0.0	0 ⁺

[†] Many γ -ray energies seem to have been taken from $^{134}\text{I} \beta^-$ decay (52.5 min).

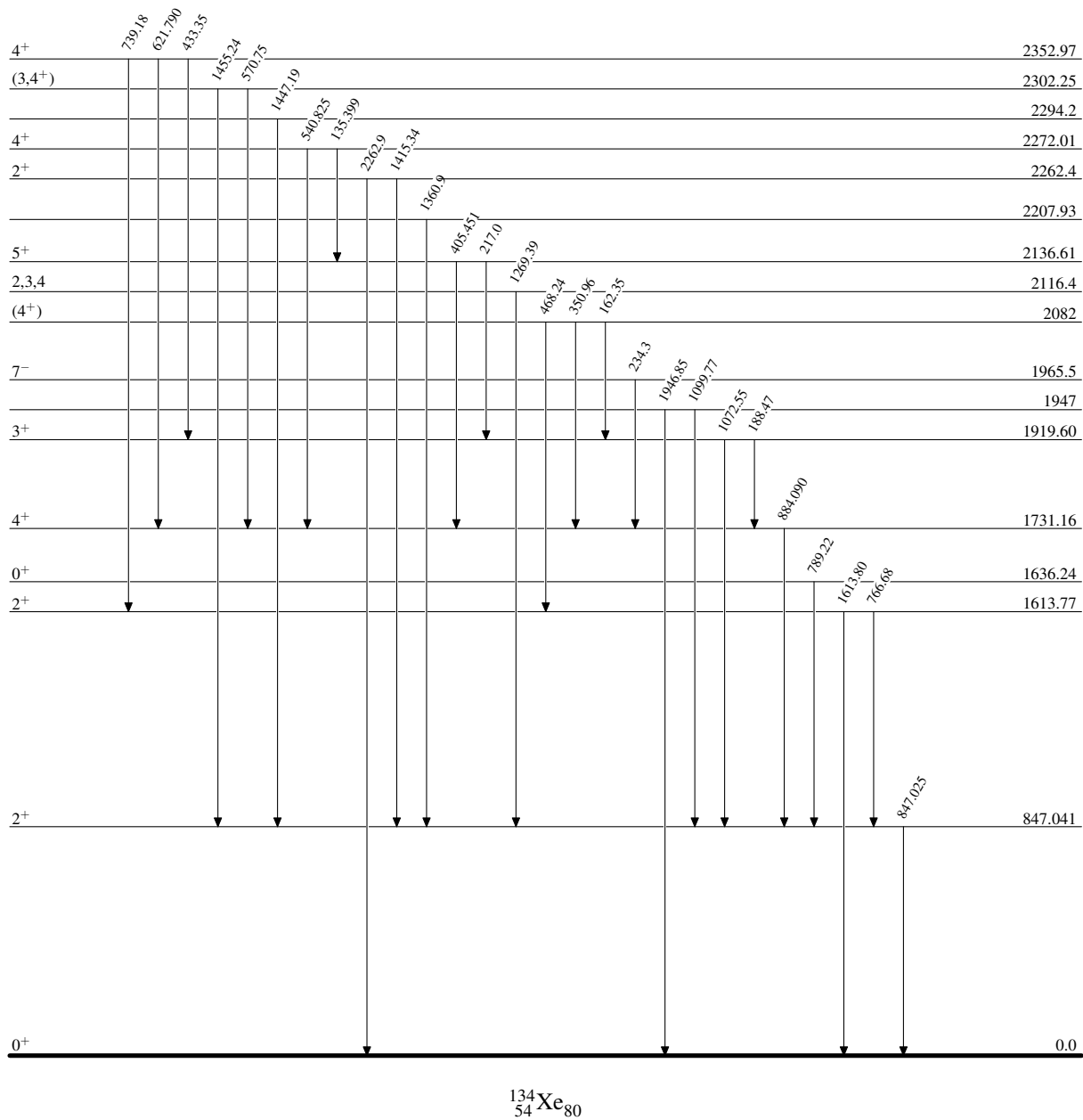
$^{134}\text{Xe}(n,n'\gamma)$ 1997McZZ

Level Scheme



$^{134}\text{Xe}(\text{n},\text{n}'\gamma)$ 1997McZZ

Level Scheme (continued)

 $^{134}_{54}\text{Xe}_{80}$