

¹³³Cs(n,γ) E=res: primary γ's **1987Bo24,1969Be19**

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

E=5.9, 22.6, 47.8 eV; J^π=3⁺.

¹³⁴Cs Levels

E(level)	J ^π †	T _{1/2}	E(level)	J ^π †	E(level)	J ^π †
0.0	4 ⁺	2.0648 y 10	688.7 5	(4) ⁺	1032.9 4	
60.1 5	(3) ⁺		701.8 5	3 ⁻ ,4 ⁻	1088.8 4	(3,4) ⁻
174.1 5	(2,3) ⁺		716.1 4	(2,3) ⁻	1100.7 4	(2,3) ⁻
177.1 5	3 ⁻ ,4 ⁻		719.5 5	⁺	1143.2 4	(2,3,4) ⁻
193.9 7	4 ⁻		743.1 6	(3 ⁺ ,4)	1162.9 4	(3 ⁻ ,4)
198.1 7	(2) ⁺		753.3 4	4 ⁻	1172.2 5	
272.1 6	(2,3) ⁺		803.1 6		1251.1 11	
377.4 4	4 ⁺		822.1 5	(2,3,4 ⁺)	1254.3 5	3 ⁻ ,4 ⁻
451.7 4	(3) ⁺		840.1 4	3 ⁻ ,4 ⁻	1266.8 4	(3 ⁻ ,4)
454.0 7	3 ⁺ ,4 ⁺		845.4 9		1319.4 18	
484.2 5	(3,4) ⁻		912.8 12	3 ⁺ ,4 ⁺	1324.0 6	
520.7 7	(3,4) ⁺		916.7 4	3 ⁻ ,4 ⁻	1326.9 5	
571.0 4	4 ⁻		941.6 5	(4 ⁻)	1386.3 4	
575.0? 4			948.6 4	2 ⁻ ,3 ⁻ ,4 ⁻	1398.1 6	
584.4 4	(2,3) ⁺		976.7 4	3 ⁻ ,4 ⁻	6891.9 3	3 ⁺
645.8 16	4 ⁻		984.3 5			

† From Adopted Levels, unless otherwise noted.

γ(¹³⁴Cs)

E _γ †	I _γ ‡	E _i (level)	J _i ^π	E _f	J _f ^π
5493.8# 5		6891.9	3 ⁺	1398.1	
5505.6 2	118 40	6891.9	3 ⁺	1386.3	
5565.0& 4	24.6 10	6891.9	3 ⁺	1326.9	
5567.9 5	17.2 7	6891.9	3 ⁺	1324.0	
5572.5@ 17		6891.9	3 ⁺	1319.4	
5625.1 2	73 3	6891.9	3 ⁺	1266.8 (3 ⁻ ,4)	
5637.6& 4	1.3×10 ² 10	6891.9	3 ⁺	1254.3 3 ⁻ ,4 ⁻	
5640.8 10	8.9 50	6891.9	3 ⁺	1251.1	
5719.7 3	13.9 11	6891.9	3 ⁺	1172.2	
5729.0& 2	27.9 14	6891.9	3 ⁺	1162.9 (3 ⁻ ,4)	
5748.7 2	35.4 18	6891.9	3 ⁺	1143.2 (2,3,4) ⁻	
5791.2 2	91 4	6891.9	3 ⁺	1100.7 (2,3) ⁻	
5803.1& 2	31.9 23	6891.9	3 ⁺	1088.8 (3,4) ⁻	
5859.0 2	19.6 16	6891.9	3 ⁺	1032.9	
5907.6# 3		6891.9	3 ⁺	984.3	
5915.2 2	31.3 16	6891.9	3 ⁺	976.7 3 ⁻ ,4 ⁻	
5943.3# 2		6891.9	3 ⁺	948.6 2 ⁻ ,3 ⁻ ,4 ⁻	
5950.3 3	12.0 12	6891.9	3 ⁺	941.6 (4 ⁻)	
5975.2 2	46.1 23	6891.9	3 ⁺	916.7 3 ⁻ ,4 ⁻	
5979.1# 11		6891.9	3 ⁺	912.8 3 ⁺ ,4 ⁺	
6046.5 8	4.8 16	6891.9	3 ⁺	845.4	
6051.8 2	90 4	6891.9	3 ⁺	840.1 3 ⁻ ,4 ⁻	

Continued on next page (footnotes at end of table)

$^{133}\text{Cs}(n,\gamma)$ E=res: primary γ 's **1987Bo24,1969Be19** (continued) $\gamma(^{134}\text{Cs})$ (continued)

E_γ^\dagger	I_γ^\ddagger	$E_i(\text{level})$	J_i^π	E_f	J_f^π	E_γ^\dagger	I_γ^\ddagger	$E_i(\text{level})$	J_i^π	E_f	J_f^π
6069.8 4	12.3 9	6891.9	3 ⁺	822.1	(2,3,4 ⁺)	6371.2 6	2.7 8	6891.9	3 ⁺	520.7	(3,4) ⁺
6088.8 5	3.5 8	6891.9	3 ⁺	803.1		6407.7 3	7.9 8	6891.9	3 ⁺	484.2	(3,4) ⁻
6138.6 [#] 2		6891.9	3 ⁺	753.3	4 ⁻	6437.9 [#] 6		6891.9	3 ⁺	454.0	3 ⁺ ,4 ⁺
6148.8 5	3.8 8	6891.9	3 ⁺	743.1	(3 ⁺ ,4)	6440.2 2	16.0 11	6891.9	3 ⁺	451.7	(3) ⁺
6172.4 4	19.3 27	6891.9	3 ⁺	719.5	⁺	6514.5 2	24.3 15	6891.9	3 ⁺	377.4	4 ⁺
6175.8 2	111 3	6891.9	3 ⁺	716.1	(2,3) ⁻	6619.8 5	10.4 16	6891.9	3 ⁺	272.1	(2,3) ⁺
6190.1 3	43 4	6891.9	3 ⁺	701.8	3 ⁻ ,4 ⁻	6693.8 6	9.3 10	6891.9	3 ⁺	198.1	(2) ⁺
6203.2 3	11 6	6891.9	3 ⁺	688.7	(4) ⁺	6698.0 6	13.9 24	6891.9	3 ⁺	193.9	4 ⁻
6246.1 [@] 15		6891.9	3 ⁺	645.8	4 ⁻	6714.8 3	20.8 19	6891.9	3 ⁺	177.1	3 ⁻ ,4 ⁻
6307.5 2	16.1 11	6891.9	3 ⁺	584.4	(2,3) ⁺	6717.8 4	9.6 19	6891.9	3 ⁺	174.1	(2,3) ⁺
6316.9 2	5.7 12	6891.9	3 ⁺	575.0?		6831.8 3	9.7 8	6891.9	3 ⁺	60.1	(3) ⁺
6320.9 2	22.1 18	6891.9	3 ⁺	571.0	4 ⁻	6891.9 3	4.6 4	6891.9	3 ⁺	0.0	4 ⁺

[†] From **1987Bo24**; corrected for recoil.

[‡] Photons per 10000 n capture for 5.9-eV resonance.

[#] Not observed from 5.9-eV resonance.

[@] Observed by **1969Be19** only.

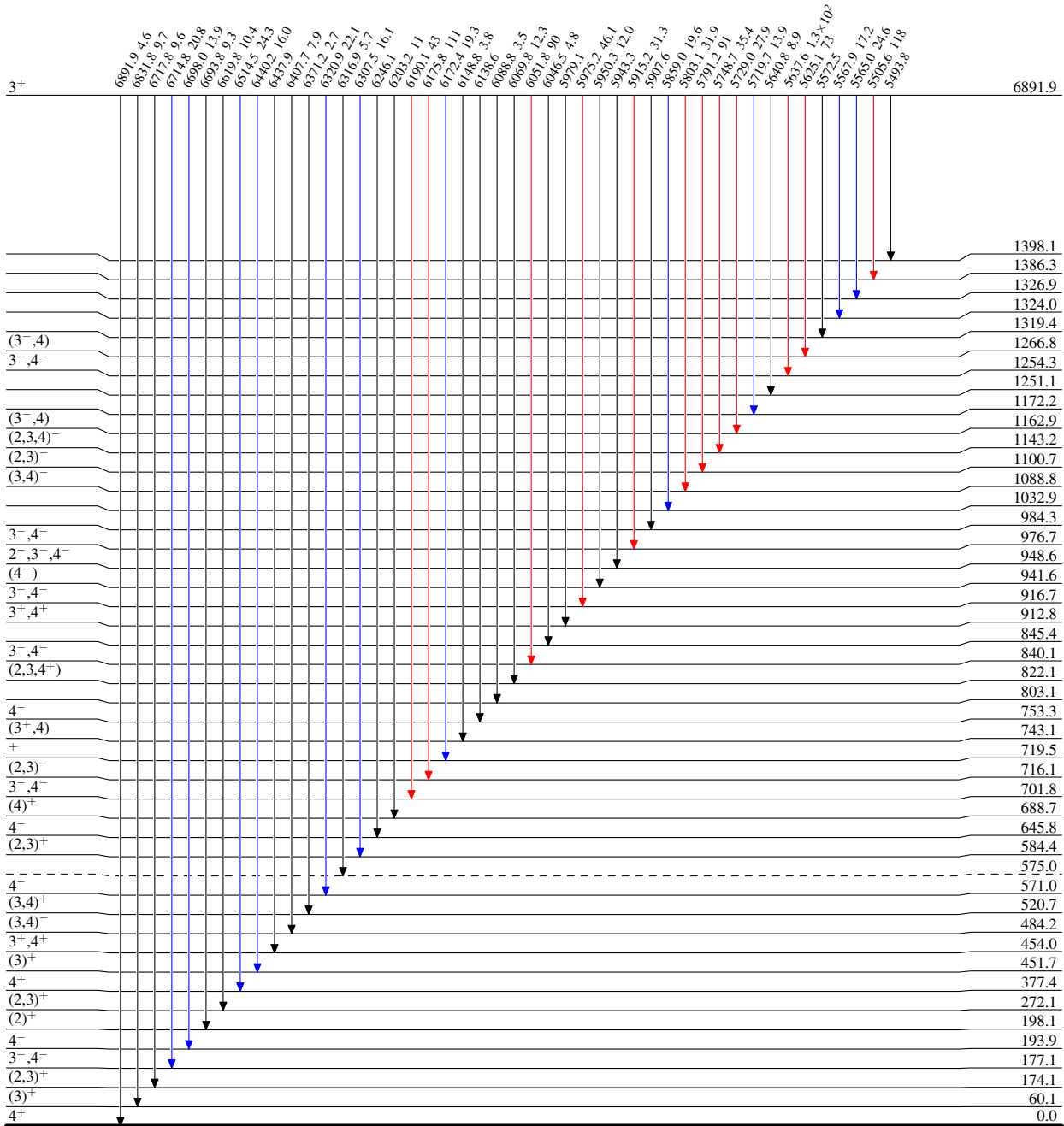
[&] Observed also to neutron capture to higher-lying $J^\pi=4^+$ resonances.

$^{133}\text{Cs}(n,\gamma)$ E=res: primary γ 's 1987Bo24,1969Be19

Legend

Level Scheme
Intensities: Type not specified

- $I_\gamma < 2\% \times I_\gamma^{max}$
- $I_\gamma < 10\% \times I_\gamma^{max}$
- $I_\gamma > 10\% \times I_\gamma^{max}$



2.0648 y 10