

<sup>135</sup>Cs IT decay (53 min) [1962Wa22](#),[1964Ha18](#),[1982Bu07](#)

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Balraj Singh, Alexander A. Rodionov And Yuri L. Khazov		NDS 109, 517 (2008)	22-Jan-2008

Parent: <sup>135</sup>Cs: E=1633.3; J<sup>π</sup>=19/2<sup>-</sup>; T<sub>1/2</sub>=53 min 2; %IT decay=100.0

<sup>135</sup>Cs-E: 1632.9 in 'Adopted Levels'.

Total decay energy calculated (by RADLIST code) from level scheme agrees with the expected value of 1633.3 keV.

<sup>135</sup>Cs Levels

E(level)	J <sup>π</sup> †	T <sub>1/2</sub>	Comments
0.0	7/2 <sup>+</sup>		
787.2	11/2 <sup>+</sup>		
1633.3	19/2 <sup>-</sup>	53 min 2	E(level): 1632.9 in 'Adopted Levels'. T <sub>1/2</sub> : from weighted average of 53 min 2 ( <a href="#">1962Wa22</a> ) and 53 min 3 ( <a href="#">1964Ha18</a> ). Other: <a href="#">1982Bu07</a> .

† From 'Adopted Levels'.

γ(<sup>135</sup>Cs)

E <sub>γ</sub> †	I <sub>γ</sub> ‡@	E <sub>i</sub> (level)	J <sub>i</sub> <sup>π</sup>	E <sub>f</sub>	J <sub>f</sub> <sup>π</sup>	Mult. #	α&	I <sub>(γ+ce)</sub> @	Comments
787.2	99.7	787.2	11/2 <sup>+</sup>	0.0	7/2 <sup>+</sup>	E2	0.00294	100	ce(K)/(γ+ce)=0.00251 4; ce(L)/(γ+ce)=0.000337 5; ce(M)/(γ+ce)=6.90×10 <sup>-5</sup> 10; ce(N+)/(γ+ce)=1.661×10 <sup>-5</sup> 24 ce(N)/(γ+ce)=1.452×10 <sup>-5</sup> 21; ce(O)/(γ+ce)=1.99×10 <sup>-6</sup> 3; ce(P)/(γ+ce)=9.26×10 <sup>-8</sup> 13 <a href="#">Additional information 1.</a>
846.1	96.0	1633.3	19/2 <sup>-</sup>	787.2	11/2 <sup>+</sup>	M4	0.0421	100	α(K)exp=0.0027 5 ( <a href="#">1964Ha18</a> ). ce(K)/(γ+ce)=0.0336 5; ce(L)/(γ+ce)=0.00542 8; ce(M)/(γ+ce)=0.001137 16; ce(N+)/(γ+ce)=0.000274 4 ce(N)/(γ+ce)=0.000240 4; ce(O)/(γ+ce)=3.28×10 <sup>-5</sup> 5; ce(P)/(γ+ce)=1.495×10 <sup>-6</sup> 21 <a href="#">Additional information 2.</a> K/L=6.1 10 ( <a href="#">1964Ha18</a> ), α(K)exp=0.037 8 ( <a href="#">1962Wa22</a> ).

† From [1982Bu07](#).

‡ From intensity balance.

# From α(K)exp and K/L.

@ Absolute intensity per 100 decays.

& Total theoretical internal conversion coefficients, calculated using the BrIcc code ([2008Ki07](#)) with Frozen orbital approximation based on γ-ray energies, assigned multiplicities, and mixing ratios, unless otherwise specified.

$^{135}\text{Cs}$  IT decay (53 min) 1962Wa22,1964Ha18,1982Bu07