

$^{134}\text{Ba}$  IT decay (2.63  $\mu\text{s}$ ) [1980Mo27](#),[1982BeZY](#)

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

Parent:  $^{134}\text{Ba}$ : E=2957.2 5;  $J^\pi=(10^+)$ ;  $T_{1/2}=2.63 \mu\text{s}$  14; %IT decay=100.0

From  $^{133}\text{Cs}(\alpha,p2n)$  E=55 MeV ([1980Mo27](#)),  $^{124}\text{Sn}(^{13}\text{C},3n)$  E=48 MeV ([1982BeZY](#)).

 $^{134}\text{Ba}$  Levels

E(level)	$J^\pi$ <sup>†</sup>	$T_{1/2}$	Comments
0.0	0 <sup>+</sup>	stable	
604.7 3	2 <sup>+</sup>		
1400.4 5	4 <sup>+</sup>		
2211.1 6	(6 <sup>+</sup> )		
2835.6 6	(8 <sup>+</sup> )		
2956.9 7	(10 <sup>+</sup> )	2.63 $\mu\text{s}$ 14	$T_{1/2}$ : from <a href="#">1982BeZY</a> .

<sup>†</sup> From Adopted Levels.

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

I $\gamma$  normalization: From level scheme.

$E_\gamma$	$E_i(\text{level})$	$J_i^\pi$	$E_f$	$J_f^\pi$	Mult. <sup>†</sup>	$\alpha^\#$	$I_{(\gamma+ce)}^\ddagger$	Comments
121.3 3	2956.9	(10 <sup>+</sup> )	2835.6	(8 <sup>+</sup> )	E2	0.981	100	$\alpha(\text{K})=0.673$ ; $\alpha(\text{L})=0.2429$ ; $\alpha(\text{M})=0.0524$ Mult.: $\alpha(\text{exp})=1.7$ 10 from the intensity balance ( <a href="#">1980Mo27</a> ).
604.7 3	604.7	2 <sup>+</sup>	0.0	0 <sup>+</sup>	E2	0.00599	100	$\alpha(\text{K})=0.00503$ ; $\alpha(\text{L})=0.00072$
624.5 3	2835.6	(8 <sup>+</sup> )	2211.1	(6 <sup>+</sup> )	(E2)	0.00552	100	$\alpha(\text{K})=0.00464$ ; $\alpha(\text{L})=0.00066$
795.7 3	1400.4	4 <sup>+</sup>	604.7	2 <sup>+</sup>	E2	0.00305	100	$\alpha(\text{K})=0.00258$ ; $\alpha(\text{L})=0.00035$
810.7 3	2211.1	(6 <sup>+</sup> )	1400.4	4 <sup>+</sup>	(E2)	0.00292	100	$\alpha(\text{K})=0.00248$ ; $\alpha(\text{L})=0.00033$

<sup>†</sup> From [1982BeZY](#), except as noted.

<sup>‡</sup> Absolute intensity per 100 decays.

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

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## Decay Scheme

%IT=100.0

