^{133}Pm ε decay 1995Br21,1993BrZS

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Yu. Khazov and A. Rodionov, F. G. Kondev	NDS 112, 855 (2011)	31-Oct-2010

Parent: ^{133}Pm: E=0.0; J$^\pi$=(3/2$^+$); $T_{1/2}$=13.5 s *21*; Q(ε)=6925 *69*; %ε+%β^+ decay=100.0

Parent: ^{133}Pm: E=129.7 *7*; J$^\pi$=(11/2$^-$); $T_{1/2}$<8.8 s; Q(ε)=6925 *69*; %ε+%β^+ decay<100.0

1995Br21,1993BrZS,1995BrZZ: ^{133}Pm(ε+β^+) [mass-separated sources from ^{92}Mo(^{46}Ti,2n3p), E=246 MeV]; measured γ, Iγ $\gamma\gamma$(t), x-rays, ce, xγ(t), Eγ(t), ceγ(t), xce(t), $T_{1/2}$. Deduced levels, J^π, γ-multipolarities. HPGe, Si(Li) detectors, tape transport system, mass-separator; particle plus triaxial rotor model calculations.

Others: 1977Bo02: isotopic identification of ^{133}Nd, measured $T_{1/2}$.

Since low- and high-spin states are populated in ^{133}Pm ε decay, it seems likely that two parent decaying states are involved. The decay scheme cannot be normalized and it should be considered as tentative.

^{133}Nd Levels

E(level)[†]	J$^\pi$[‡]	$T_{1/2}$	Comments
0.0	(7/2$^+$)	70 s *10*	%ε+%β^+=100 $T_{1/2}$: from 1977Bo02.
127.97 *12*	(1/2$^+$)	≈70 s	%ε+%β^+=?; %IT=? $T_{1/2}$: Value quoted in 1995Br21, but a direct evidence was not presented.
173.05 *10*	(3/2$^+$)		
176.10 *10*	(9/2$^-$)	>100 ns	$T_{1/2}$: from 176.1γ(t) in 1995Br21.
245.49 *10*	(9/2$^+$)		
291.37 *8*	(5/2$^+$)		
338.87 *22*	(11/2$^-$)		
345.23 *9*	(3/2$^+$)		
353.62 *13*	(3/2$^-$)	46 ns *9*	$T_{1/2}$: from 180.6γ(t) in 1995Br21.
397.93 *12*	(5/2$^+$)		
399.81 *20*	(1/2$^+$,3/2$^+$)		
442.51 *14*	(7/2$^-$,9/2$^-$,11/2$^-$)		
444.66 *15*	(1/2,3/2,5/2$^+$)		
472.13 *14*	(3/2$^+$,5/2$^+$,7/2$^+$)		
483.51 *13*	(7/2$^+$)		
491.86 *25*	(7/2$^+$)		
492.29 *22*	(7/2$^-$)		
523.82 *16*	(5/2$^-$)		
554.98 *14*	(1/2$^+$,3/2$^+$,5/2$^+$)		
585.4 *4*			
587.1 *5*			
628.3 *4*			
660.25 *22*	(1/2,3/2,5/2$^+$)		
674.60 *16*	(5/2$^+$)		
738.83 *23*			
787.82 *14*	(3/2$^+$,5/2,7/2$^+$)		
806.44 *21*			
837.5 *5*			
879.37 *17*	(5/2$^+$,7/2$^+$)		
932.2 *6*			
937.08 *18*			
979.8 *7*			
985.90 *16*	(1/2$^+$,3/2,5/2$^+$)		
999.2 *5*			
1007.0 *5*			
1013.66 *15*	(3/2$^+$,5/2$^+$)		
1120.20 *23*	(5/2$^+$,7/2$^+$)		
1154.5 *3*			
1183.1 *6*			

Continued on next page (footnotes at end of table)

^{133}Pm ε decay 1995Br21,1993BrZS (continued)

^{133}Nd Levels (continued)

E(level)†	J$^{\pi}$‡	E(level)†	J$^{\pi}$‡	E(level)†
1195.6 *5*		1280.4 *7*		1886.5 *4*
1206.0 *7*		1595.8 *4*	(3/2$^+$,5/2,7/2$^+$)	2005.0 *4*
1209.1 *4*		1770.5 *5*		2043.4 *4*
1230.1 *5*	(5/2$^+$,7/2$^-$)	1834.3 *8*		2076.7 *4*
				2451.2 *3*

† From a least-squares fit to Eγ′s.
‡ From Adopted Levels.

γ(^{133}Nd)

E_γ[‡]	I_γ[‡]	E_i(level)	J^π_i	E_f	J^π_f	Mult.[#]	δ	α[†]	Comments
45.1 *1*	32 *4*	173.05	(3/2$^+$)	127.97	(1/2$^+$)	M1		14.03 *22*	α(L)exp<12; α(M+...)exp<1.4 α(N)=0.0810 *13*; α(O)=0.01227 *19*; α(P)=0.000788 *13*
54.0 *2*	1.5 *5*	345.23	(3/2$^+$)	291.37	(5/2$^+$)				
62.3 *3*	2.4 *8*	353.62	(3/2$^-$)	291.37	(5/2$^+$)				
118.3 *1*	31 *4*	291.37	(5/2$^+$)	173.05	(3/2$^+$)	M1		0.877	ce(K)=26 *5*; ce(L)=3.8 *7*; α(K)exp=0.83 *17*; L/K=0.15 *3* α(K)=0.746 *11*; α(L)=0.1036 *15*; α(M)=0.0220 *4*; α(N+..)=0.00572 *9* α(N)=0.00492 *7*; α(O)=0.000748 *11*; α(P)=4.83×10^{-5} *7*
127.9 *6*	0.6 *3*	127.97	(1/2$^+$)	0.0	(7/2$^+$)	M3		38.4 *10*	ce(K)=11 *2*; α(K)exp=18 *10*; L/K=0.25 *25* α(K)=24.4 *6*; α(L)=10.7 *3*; α(M)=2.55 *8*; α(N+..)=0.654 *19* α(N)=0.571 *17*; α(O)=0.0800 *23*; α(P)=0.00338 *9*
138.7 *2*	8.0 *8*	492.29	(7/2$^-$)	353.62	(3/2$^-$)	E2		0.687	α(K)=0.455 *7*; α(L)=0.181 *3*; α(M)=0.0409 *7*; α(N+..)=0.01007 *16* α(N)=0.00888 *14*; α(O)=0.001172 *18*; α(P)=2.13×10^{-5} *4* ce(K)=3.8 *7*, ce(L)=2.2 *4*, ce(M)=0.57 *9*, α(K)exp=0.48 *10*, L/K=0.55 *15*, (M+N)/K=0.19 *7*$.
157.2 *2*	1.8 *3*	554.98	(1/2$^+$,3/2$^+$,5/2$^+$)	397.93	(5/2$^+$)				
162.8 *2*	2.5 *7*	338.87	(11/2$^-$)	176.10	(9/2$^-$)				
170.2 *1*	8.5 *9*	523.82	(5/2$^-$)	353.62	(3/2$^-$)	E2		0.339	α(K)=0.241 *4*; α(L)=0.0767 *11*; α(M)=0.01716 *25*; α(N+..)=0.00425 *6* α(N)=0.00374 *6*; α(O)=0.000501 *8*; α(P)=1.181×10^{-5} *17* ce(K)=1.9 *4*, ce(L)=0.62 *7*, ce(M)=0.17 *3*, α(K)exp=0.22 *5*, L/K=0.32 *6*, (M+N)/K=0.089 *20*.
176.1 *1*	50 *5*	176.10	(9/2$^-$)	0.0	(7/2$^+$)	E1		0.0553	ce(K)=2.3 *4*; ce(L)=0.32 *5*; α(K)exp=0.046 *10*; L/K=0.14 *3* α(K)=0.0471 *7*; α(L)=0.00644 *9*; α(M)=0.001359 *20*; α(N+..)=0.000348 *5* α(N)=0.000301 *5*; α(O)=4.43×10^{-5} *7*; α(P)=2.52×10^{-6} *4*
180.6 *1*	100 *5*	353.62	(3/2$^-$)	173.05	(3/2$^+$)	E1		0.0516	ce(K)=4.0 *7*; ce(L)=0.61 *12*; α(K)exp=0.040 *8*; L/K=0.15 *4* α(K)=0.0440 *7*; α(L)=0.00601 *9*; α(M)=0.001267 *18*; α(N+..)=0.000325 *5* α(N)=0.000281 *4*; α(O)=4.14×10^{-5} *6*; α(P)=2.36×10^{-6} *4* L/K: calculated by evaluators; <0.20 in 1995Br21.
180.8 *5*	4.5 *10*	472.13	(3/2$^+$,5/2$^+$,7/2$^+$)	291.37	(5/2$^+$)	M1+E2	<0.6	0.272 *6*	α(K)=0.214 *15*; α(L)=0.046 *15*; α(M)=0.010 *4*; α(N+..)=0.0025 *8* α(N)=0.0022 *8*; α(O)=0.00031 *9*; α(P)=1.23×10^{-5} *25* Mult.: ce(K)=1.5 *3*, ce(L)=0.61 *13*, α(K)exp=0.33 *10* and L/K=0.41 *12*. δ: Deduced by evaluators from ce(K), ce(L) and α(K)exp and the BriccMixing program.
192.1 *1*	14 *2*	483.51	(7/2$^+$)	291.37	(5/2$^+$)	M1+E2	2.0 *10*	0.225	ce(K)=2.9 *5*; ce(L)=0.73 *15*; α(K)exp=0.21 *5*; L/K=0.25 *6* α(K)=0.170 *9*; α(L)=0.043 *7*; α(M)=0.0095 *15*;

$\gamma(^{133}$Nd) (continued)

E_γ‡	I_γ‡	E_i(level)	J^π_i	E_f	J^π_f	Mult.#	δ	α†	Comments
									α(N+..)=0.0024 *4* α(N)=0.0021 *3*; α(O)=0.00029 *4*; α(P)=9.1×10^{-6} *13* δ: calculated by evaluators using BrIccMixing program.
200.5 *4*	11 *3*	491.86	(7/2$^+$)	291.37	(5/2$^+$)	M1+E2	0.0 *6*	0.202 *4*	ce(K)=1.8 *4*; ce(L)=0.61 *12*; α(K)exp=0.16 *3*; L/K=0.34 *10* α(K)=0.172 *8*; α(L)=0.024 *5*; α(M)=0.0050 *10*; α(N+..)=0.00130 *24* α(N)=0.00112 *22*; α(O)=0.000170 *24*; α(P)=1.11×10^{-5} *11* δ: calculated by evaluators using BrIccMixing program.
215.6 *6*	6.8 *9*	660.25	(1/2,3/2,5/2$^+$)	444.66	(1/2,3/2,5/2$^+$)				
224.9 *1*	53 *8*	397.93	(5/2$^+$)	173.05	(3/2$^+$)	M1		0.1476	ce(K)=7.0 *11*; ce(L)=0.77 *16*; α(K)exp=0.13 *3*; L/K=0.11 *4* α(K)=0.1258 *18*; α(L)=0.01723 *25*; α(M)=0.00365 *6*; α(N+..)=0.000951 *14* α(N)=0.000818 *12*; α(O)=0.0001244 *18*; α(P)=8.10×10^{-6} *12*
245.5 *1*	15 *2*	245.49	(9/2$^+$)	0.0	(7/2$^+$)	E2(+M1)		0.0994	ce(K)=1.2 *3*; α(K)exp=0.078 *16* α(K)=0.0765 *11*; α(L)=0.0180 *3*; α(M)=0.00396 *6*; α(N+..)=0.000993 *14* α(N)=0.000868 *13*; α(O)=0.0001201 *17*; α(P)=4.05×10^{-6} *6*
266.4 *1*	16 *2*	442.51	(7/2$^-$,9/2$^-$,11/2$^-$)	176.10	(9/2$^-$)	M1+E2	0.0 *5*	0.094 *4*	ce(K)=1.9 *4*; α(K)exp=0.12 *4*; L/K=0.26 *6* α(K)=0.080 *5*; α(L)=0.0109 *5*; α(M)=0.00231 *13*; α(N+..)=0.00060 *3* α(N)=0.00052 *3*; α(O)=7.86×10^{-5} *24*; α(P)=5.1×10^{-6} *4* δ: calculated by evaluators using BrIccMixing program.
270.0 *4*	49 *9*	397.93	(5/2$^+$)	127.97	(1/2$^+$)	E2		0.0731	ce(K)=4.0 *6*; ce(L)=1.0 *5*; α(K)exp=0.081 *20*; L/K=0.25 *10* α(K)=0.0571 *9*; α(L)=0.01258 *19*; α(M)=0.00277 *5*; α(N+..)=0.000695 *11* α(N)=0.000607 *10*; α(O)=8.46×10^{-5} *13*; α(P)=3.08×10^{-6} *5*
271.4 *4*	21 *5*	444.66	(1/2,3/2,5/2$^+$)	173.05	(3/2$^+$)				
271.9 *4*	70 *14*	399.81	(1/2$^+$,3/2$^+$)	127.97	(1/2$^+$)	M1		0.0887	ce(K)=5.8 *9*; α(K)exp=0.083 *17* α(K)=0.0756 *11*; α(L)=0.01030 *15*; α(M)=0.00218 *4*; α(N+..)=0.000568 *9* α(N)=0.000489 *8*; α(O)=7.44×10^{-5} *11*; α(P)=4.86×10^{-6} *7*
274.7 *6*	2.1 *3*	674.60	(5/2$^+$)	399.81	(1/2$^+$,3/2$^+$)				
289.6 *5*	1.4 *2*	628.3		338.87	(11/2$^-$)				
291.4 *1*	85 *8*	291.37	(5/2$^+$)	0.0	(7/2$^+$)	M1		0.0738	ce(K)=4.5 *7*; ce(L)=0.61 *9*; α(K)exp=0.053 *11*; L/K=0.14 *5* α(K)=0.0629 *9*; α(L)=0.00856 *12*; α(M)=0.00181 *3*; α(N+..)=0.000472 *7* α(N)=0.000406 *6*; α(O)=6.18×10^{-5} *9*; α(P)=4.04×10^{-6} *6*
299.1 *1*	24 *3*	472.13	(3/2$^+$,5/2$^+$,7/2$^+$)	173.05	(3/2$^+$)	E2		0.0529	ce(K)=1.9 *2*; α(K)exp=0.044 *9* α(K)=0.0418 *6*; α(L)=0.00866 *13*; α(M)=0.00190 *3*; α(N+..)=0.000478 *7* α(N)=0.000417 *6*; α(O)=5.87×10^{-5} *9*; α(P)=2.30×10^{-6} *4*
316.7 *1*	25 *6*	444.66	(1/2,3/2,5/2$^+$)	127.97	(1/2$^+$)				
318.8 *4*	6 *3*	491.86	(7/2$^+$)	173.05	(3/2$^+$)				

γ(^{133}Nd) (continued)

E_γ[‡]	I_γ[‡]	E_i(level)	J_i^π	E_f	J_f^π	Mult.[#]	α[†]	Comments
329.4 *2*	10 *1*	674.60	(5/2$^+$)	345.23	(3/2$^+$)			
334.5 *3*	5.1 *5*	806.44		472.13	(3/2$^+$,5/2$^+$,7/2$^+$)			
340.9 *2*	6 *2*	738.83		397.93	(5/2$^+$)			
345.2 *1*	65 *7*	345.23	(3/2$^+$)	0.0	(7/2$^+$)	E2	0.0340	ce(K)=1.6 *3*; α(K)exp=0.025 *5* α(K)=0.0273 *4*; α(L)=0.00524 *8*; α(M)=0.001142 *16*; α(N+..)=0.000289 *4* α(N)=0.000252 *4*; α(O)=3.58×10^{-5} *5*; α(P)=1.534×10^{-6} *22*
361.7 *4*	4 *1*	806.44		444.66	(1/2,3/2,5/2$^+$)			
381.9 *1*	27 *6*	554.98	(1/2$^+$,3/2$^+$,5/2$^+$)	173.05	(3/2$^+$)	M1+E2	0.031 *6*	ce(K)=0.71 *2*; α(K)exp=0.026 *5* α(K)=0.026 *6*; α(L)=0.00396 *24*; α(M)=0.00085 *4*; α(N+..)=0.000218 *13* α(N)=0.000189 *11*; α(O)=2.79×10^{-5} *24*; α(P)=1.6×10^{-6} *5*
387.5 *4*	2 *1*	879.37	(5/2$^+$,7/2$^+$)	491.86	(7/2$^+$)			
389.9 *2*	4.4 *4*	787.82	(3/2$^+$,5/2,7/2$^+$)	397.93	(5/2$^+$)			
392.8 *4*	4 *1*	837.5		444.66	(1/2,3/2,5/2$^+$)			
406.5 *4*	4 *1*	806.44		399.81	(1/2$^+$,3/2$^+$)			
408.4 *4*	6 *2*	806.44		397.93	(5/2$^+$)			
409.4 *4*	16 *5*	585.4		176.10	(9/2$^-$)			
413.9 *4*	2.5 *7*	999.2		585.4				
414.0 *4*	21 *5*	587.1		173.05	(3/2$^+$)			
421.6 *2*	2.5 *3*	1007.0		585.4				
427.0 *4*	21 *5*	554.98	(1/2$^+$,3/2$^+$,5/2$^+$)	127.97	(1/2$^+$)			
429.1 *4*	10 *2*	674.60	(5/2$^+$)	245.49	(9/2$^+$)			
442.5 *2*	3.5 *4*	787.82	(3/2$^+$,5/2,7/2$^+$)	345.23	(3/2$^+$)			
452.1 *4*	4.6 *9*	628.3		176.10	(9/2$^-$)			
472.2[@] *2*	10 *2*	472.13	(3/2$^+$,5/2$^+$,7/2$^+$)	0.0	(7/2$^+$)			
483.5[@] *2*	7.7 *8*	483.51	(7/2$^+$)	0.0	(7/2$^+$)			
487.2 *2*	10 *3*	660.25	(1/2,3/2,5/2$^+$)	173.05	(3/2$^+$)			
491.9[@] *3*	4.4 *5*	491.86	(7/2$^+$)	0.0	(7/2$^+$)			
514.9 *8*	8 *2*	806.44		291.37	(5/2$^+$)			
521.5 *4*	1.9 *2*	1013.66	(3/2$^+$,5/2$^+$)	492.29	(7/2$^-$)			
529.9 *3*	1.8 *2*	1013.66	(3/2$^+$,5/2$^+$)	483.51	(7/2$^+$)			
532.7[@] *6*	0.8 *2*	660.25	(1/2,3/2,5/2$^+$)	127.97	(1/2$^+$)			
537.3 *3*	1.2 *6*	937.08		399.81	(1/2$^+$,3/2$^+$)			
539.1 *4*	1.5 *7*	937.08		397.93	(5/2$^+$)			
546.6 *4*	5 *2*	674.60	(5/2$^+$)	127.97	(1/2$^+$)			
556.4 *6*	6 *3*	999.2		442.51	(7/2$^-$,9/2$^-$,11/2$^-$)			
565.8 *7*	5 *2*	738.83		173.05	(3/2$^+$)			
586.1 *6*	2 *1*	985.90	(1/2$^+$,3/2,5/2$^+$)	399.81	(1/2$^+$,3/2$^+$)			
587.0 *6*	4 *1*	932.2		345.23	(3/2$^+$)			
588.0 *6*	2 *1*	879.37	(5/2$^+$,7/2$^+$)	291.37	(5/2$^+$)			
588.1 *6*	8 *2*	985.90	(1/2$^+$,3/2,5/2$^+$)	397.93	(5/2$^+$)			

^{133}Pm ε decay 1995Br21,1993BrZS (continued)

γ(^{133}Nd) (continued)

E_γ ‡	I_γ ‡	E_i(level)	J^π_i	E_f	J^π_f
591.9 8	2.7 4	937.08		345.23	(3/2$^+$)
614.8 4	4 1	787.82	(3/2$^+$,5/2,7/2$^+$)	173.05	(3/2$^+$)
626.2 6	3 1	979.8		353.62	(3/2$^-$)
632.4 3	5 2	985.90	(1/2$^+$,3/2,5/2$^+$)	353.62	(3/2$^-$)
633.9 2	3.7 4	879.37	(5/2$^+$,7/2$^+$)	245.49	(9/2$^+$)
636.5 5	1.0 5	1120.20	(5/2$^+$,7/2$^+$)	483.51	(7/2$^+$)
645.7 2	11 3	937.08		291.37	(5/2$^+$)
660.1 2	3.7 4	1013.66	(3/2$^+$,5/2$^+$)	353.62	(3/2$^-$)
674.6 4	8.3 8	674.60	(5/2$^+$)	0.0	(7/2$^+$)
706.3 4	2 1	879.37	(5/2$^+$,7/2$^+$)	173.05	(3/2$^+$)
713.7 6	1.7 2	1206.0		492.29	(7/2$^-$)
720.5 4	1.3 7	1120.20	(5/2$^+$,7/2$^+$)	399.81	(1/2$^+$,3/2$^+$)
722.2 4	9 2	1013.66	(3/2$^+$,5/2$^+$)	291.37	(5/2$^+$)
722.3 4	2 1	1120.20	(5/2$^+$,7/2$^+$)	397.93	(5/2$^+$)
788.0 3	3.2 4	787.82	(3/2$^+$,5/2,7/2$^+$)	0.0	(7/2$^+$)
812.9 2	23 4	985.90	(1/2$^+$,3/2,5/2$^+$)	173.05	(3/2$^+$)
828.8 7	4.5 5	1120.20	(5/2$^+$,7/2$^+$)	291.37	(5/2$^+$)
829.5 5	2.5 5	1183.1		353.62	(3/2$^-$)
842.0 4	5 1	1195.6		353.62	(3/2$^-$)
855.5 3	5 2	1209.1		353.62	(3/2$^-$)
857.8 2	8.5 9	985.90	(1/2$^+$,3/2,5/2$^+$)	127.97	(1/2$^+$)
863.1 4	1.5 4	1154.5		291.37	(5/2$^+$)
874.7 5	3 1	1120.20	(5/2$^+$,7/2$^+$)	245.49	(9/2$^+$)
876.5 5	3.4 8	1230.1	(5/2$^+$,7/2$^-$)	353.62	(3/2$^-$)
879.2 5	6.6 7	879.37	(5/2$^+$,7/2$^+$)	0.0	(7/2$^+$)
885.7 2	12 1	1013.66	(3/2$^+$,5/2$^+$)	127.97	(1/2$^+$)
926.8 6	1.8 3	1280.4		353.62	(3/2$^-$)
984.5 8	0.9 9	1230.1	(5/2$^+$,7/2$^-$)	245.49	(9/2$^+$)
1013.7 4	2.3 5	1013.66	(3/2$^+$,5/2$^+$)	0.0	(7/2$^+$)
1041.1 9	0.9 9	1595.8	(3/2$^+$,5/2,7/2$^+$)	554.98	(1/2$^+$,3/2$^+$,5/2$^+$)
1154.5 4	2.7 5	1154.5		0.0	(7/2$^+$)
1251.0 5	3.1 4	1595.8	(3/2$^+$,5/2,7/2$^+$)	345.23	(3/2$^+$)
1425.3 5	2.4 5	1770.5		345.23	(3/2$^+$)
1489.1 8	1.3 9	1834.3		345.23	(3/2$^+$)
1532.7 4	2.9 8	1886.5		353.62	(3/2$^-$)
1541.6 6	1.5 9	1886.5		345.23	(3/2$^+$)
1595.2 5	3.8 6	1595.8	(3/2$^+$,5/2,7/2$^+$)	0.0	(7/2$^+$)
1651.4 3	3.7 8	2005.0		353.62	(3/2$^-$)
1689.8 3	7.1 8	2043.4		353.62	(3/2$^-$)
1723.1 3	5.4 7	2076.7		353.62	(3/2$^-$)
2051.5 5	3 1	2451.2		399.81	(1/2$^+$,3/2$^+$)
2053.0 5	4 1	2451.2		397.93	(5/2$^+$)
2160.0 5	2 1	2451.2		291.37	(5/2$^+$)

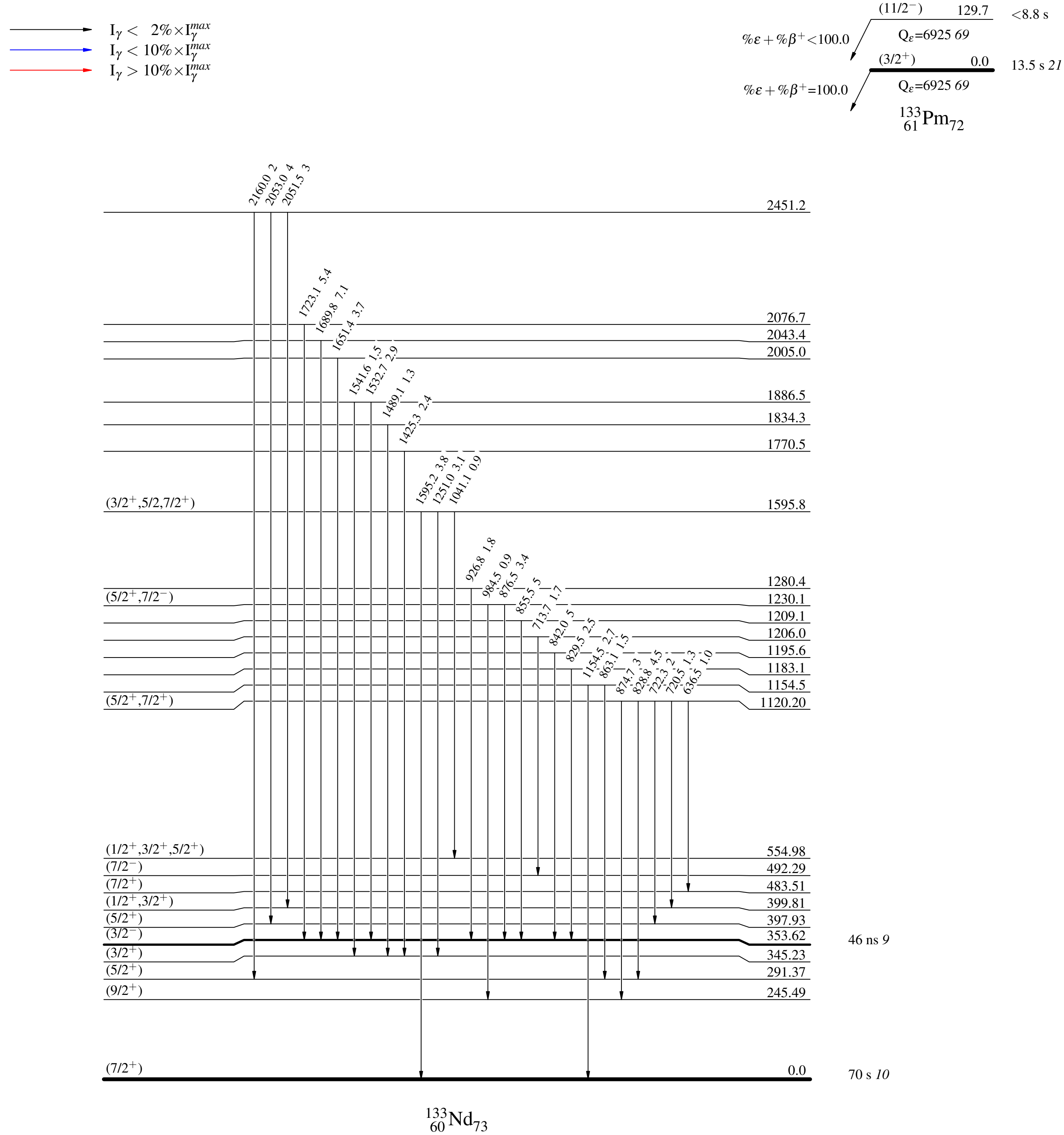
† Additional information 1.
‡ From 1995Br21. The assignment to ^{133}Nd is based on x-ray coin and multiscaling data.
# From α(K)exp, α(L)exp, α(M)exp and sub-shell ratios in 1995Br21.
@ Placement of transition in the level scheme is uncertain.

$^{133}_{60}Nd_{73}$-6

^{133}Pm ε decay 1995Br21,1993BrZS

Decay Scheme

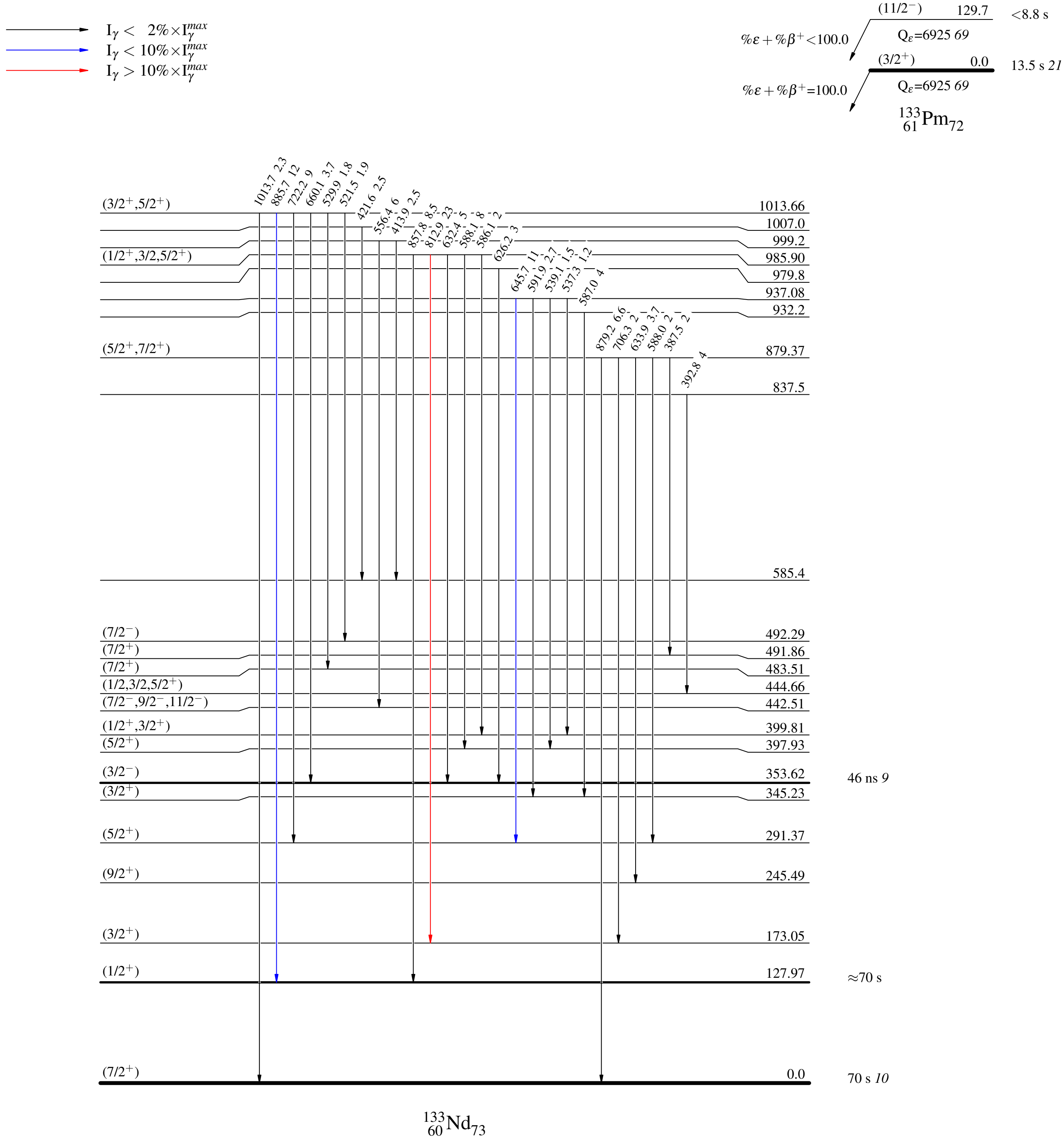
Intensities: Relative I_γ



^{133}Pm ε decay 1995Br21,1993BrZS

Decay Scheme (continued)

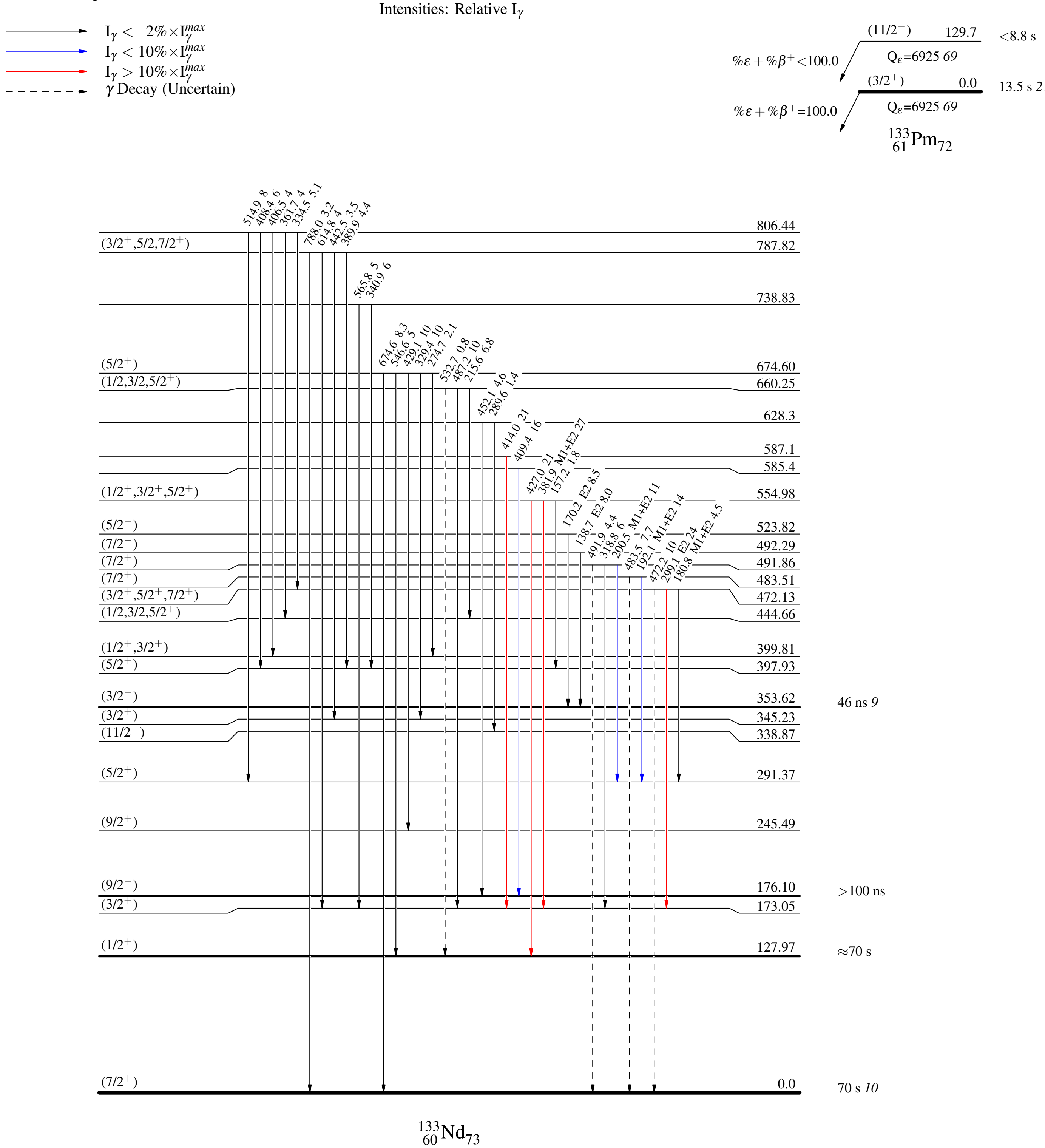
Intensities: Relative I_γ



^{133}Pm ε decay 1995Br21,1993BrZS

Decay Scheme (continued)

Intensities: Relative I_γ



^{133}Pm ε decay 1995Br21,1993BrZS

Decay Scheme (continued)

Intensities: Relative I_γ