

¹³²Pr ε decay (1.6 min) 1998Ga43

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	Yu. Khazov, A. A. Rodionov and S. Sakharov, Balraj Singh		NDS 104, 497 (2005)	10-Feb-2005

Parent: ¹³²Pr: E=0.0; J^π=(2)⁺; T_{1/2}=1.6 min 3; Q(ε)=7260 60; %ε+%β⁺ decay=100.0

¹³²Pr-Population of (8⁻) isomer at 2342 suggests that a high-spin isomer of ¹³²Pr may also be contributing to the total ¹³²Pr activity. The activity is probably contributed by two isomers, although, only one activity of 1.6 min 3 with J^π=(2)⁺ has been identified.

Low-lying high-spin levels are known from In-beam γ-ray studies, one of which could be an isomer.

1998Ga43: ¹³²Pr was produced in ¹¹⁷Sn(¹⁹F,4n) reaction at E=75 MeV. Measured E_γ, γ branching ratios, γγ and γγ(θ) with OSIRIS cube spectrometer. Comparisons with detailed interacting-boson-model calculations.

1990Ko25 (also **1987Ko24**): ¹³²Pr produced in ⁹²Mo(⁴⁶Ti,n5p) E=250 MeV followed by mass separation. **1987Ko24** used ¹¹²Sn(²⁸Si,X) reaction at E=190, 220 MeV. Measured E_γ, I_γ, γγ. A total of 17 γ rays reported with 10 excited states. Possible feedings of 5⁺ and 6⁺ states seem to due to contribution from two isomers: a low spin and a high-spin.

1988Ba42: ⁹⁶Mo(⁴⁰Ca,X) at E=250 MeV. Measured E_γ, γγ. A total of 15 γ rays reported with 9 excited states. Numerical values of intensities were not given. Four of these γ rays were not reported by **1998Ga43** or **1990Ko25**.

1974Ar27 (also **1974La32**): ¹³²Pr produced in Ta(p,X) E=660 MeV. Measured T_{1/2} of ¹³²Pr nuclide; E_γ of three γ rays with three levels proposed.

1964PeZY: T_{1/2} and identification.

¹³²Ce Levels

E(level) [†]	J ^π [‡]	Comments
0.0 [@]	0 ⁺	
325.40 [@] 7	2 ⁺	
822.21 ^{&} 7	2 ⁺ [#]	
858.91 [@] 8	4 ⁺	
1158.47 ^a 9	0 ⁺ [#]	
1199.48 ^{&} 8	3 ⁺ [#]	
1384.16 ^{&} 8	4 ⁺ [#]	
1497.14 ^a 8	2 ⁺	
1543.18 [@] 12	6 ⁺	
1656.00 9		J ^π : (5 ⁺) (1998Ga43). E(level): may be a doublet.
1714.21 13		
1734.73 9	2 ⁺ [#]	
1808.43 10	(2 ⁺ ,3,4 ⁺)	J ^π : 3 ⁺ ,(3 ⁻)(1998Ga43).
1814.77 10	(5 ⁺)	
1892.8? 6		E(level): level proposed by 1988Ba42 only.
1922.81 9	(2 ⁺ ,3,4 ⁺)	J ^π : 2 ⁺ (1998Ga43).
1932.02 ^a 8	(4 ⁺)	J ^π : 4 ⁺ ,(2 ⁺ ,3 ⁺) (1998Ga43).
1950.72 8	(2 ⁺ ,3,4 ⁺)	J ^π : 3 ⁺ ,4 ⁺ (1998Ga43).
1996.51 13		J ^π : not 0 ⁺ ,1 ⁻ ,3 ⁻ (1998Ga43).
2038.93 9		
2049.90 13		
2096.90 9	(2 ⁺ ,3,4 ⁺)	
2139.9 10	(4 ⁻)	E(level): from figure 2 of 1998Ga43 ; not given in Table 4.
2145.71 13		J ^π : 1 ⁺ ,2,3 ⁺ (1998Ga43).
2169.37 11		J ^π : 1,2 ⁺ ,3 (1998Ga43).
2189.31 13		J ^π : (not 3 ⁻ , 5 ⁻) (1998Ga43).
2295.71 13		
2330.42 13		
2341.78 12	(8 ⁻)	J ^π : isomer from ¹³² Ce IT decay (2001Mo05). Population of this state suggests that a high-spin isomer of ¹³² Pr may also be contributing to this decay.

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^{132}Pr ε decay (1.6 min) **1998Ga43** (continued) ^{132}Ce Levels (continued)

E(level) [†]	$J^{\pi\ddagger}$	Comments
2365.02 10		J^{π} : (not $3^{-}, 5^{-}$) (1998Ga43).
2379.31 13		
2379.81 13		
2450.81 13		
2464.62 13		
2483.02 9	($2^{+}, 3, 4^{+}$)	
2508.77 9	($2^{+}, 3, 4^{+}$)	J^{π} : $4^{+}, (3^{+}, 2^{+})$ (1998Ga43).
2554.17 9		
2562.61 13		
2577.86 10		J^{π} : (2^{+}) (1998Ga43).
2606.21 10		J^{π} : not 0^{+} (1998Ga43).
2644.72 13		
2650.50 13		
2719.50 13		
2740.72 9	($2^{+}, 3, 4^{+}$)	J^{π} : ($3, 4^{+}$) (1998Ga43).
2758.6 3		
2761.92 13		
2825.92 13		
2835.90 12	($2^{+}, 3, 4^{+}$)	
2857.67 13		
2864.22 13		
2866.98 14	($1, 2^{+}$)	
2957.44 13		J^{π} : $1^{+}, 2^{+}, (0^{+})$ (1998Ga43).
2982.73 23		
2988.12 10	($3^{+}, 4^{+}$)	J^{π} : $3^{+}, 4^{+}, (3^{-})$ (1998Ga43).
3070.42 13		
3145.9 3		
3316.3 3		
3317.5 3		
3331.8 3		
3332.6 3		
3378.4 3	($2^{+}, 3, 4^{+}$)	
3412.81 13		
3550.70 11		
3682.00 11		
3702.04 23	($2^{+}, 3, 4^{+}$)	
3721.83 13		
3825.33 13		
3863.44 13		
3863.84 13	($2^{+}, 3, 4^{+}$)	
4270.65 13		
4271.1 4		
4348.8 4		
4352.9 4		
4390.4 5		
4473.9 4		

[†] From least-squares fit to $E\gamma$'s.

[‡] From Adopted Levels, unless otherwise stated. Assignments proposed by 1998Ga43 are given under comments when not supported by strong arguments.

From $\gamma\gamma(\theta)$ measurements.

@ Band(A): The g.s. band.

& Band(B): Possible γ band.

^a Band(C): Possible β band.

^{132}Pr ε decay (1.6 min) **1998Ga43** (continued)

$\gamma(^{132}\text{Ce})$								
$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\ddagger	E_f	J_f^π	Mult.#	$\delta^\#$	Comments
325.40	2 ⁺	325.4 1	100	0.0	0 ⁺			I_γ : 100 5 (1990Ko25). Additional information 1.
822.21	2 ⁺	496.8 1	100 20	325.40	2 ⁺	E2+M1	+9 +5-3	I_γ : 25 3 (1990Ko25). Additional information 2. (497 γ)(325 γ)(θ): W(180°)/W(90°)=0.98 3, W(55°)/W(90°)=0.757 25.
		822.2 1	75 15	0.0	0 ⁺			I_γ : 17.3 17 (1990Ko25). Additional information 3.
858.91	4 ⁺	533.5 1	100	325.40	2 ⁺			I_γ : 15.2 15 (1990Ko25). Additional information 4.
1158.47	0 ⁺	336.3 1	100 20	822.21	2 ⁺			(336 γ)(822 γ)(θ): W(180°)/W(90°)=1.89 11, W(55°)/W(90°)=0.53 3.
		833.1 1	52 10	325.40	2 ⁺			(833 γ)(325 γ)(θ): W(180°)/W(90°)=1.76 10, W(55°)/W(90°)=0.53 3.
1199.48	3 ⁺	340.6 3	5.5 11	858.91	4 ⁺	E2(+M1)	>+13	I_γ : <0.5 (1990Ko25). Additional information 5. δ : +39 + ∞ -26. (341 γ)(534 γ)(θ): W(180°)/W(90°)=0.87 6, W(55°)/W(90°)=1.10 6.
		377.3 1	31 6	822.21	2 ⁺	E2(+M1)	>+15	I_γ : 3.5 8 (1990Ko25). Additional information 6. δ : +37 + ∞ -22. (377 γ)(822 γ)(θ): W(180°)/W(90°)=0.69 4, W(55°)/W(90°)=1.00 4.
		874.1 1	100 20	325.40	2 ⁺	E2+M1	+4.8 6	I_γ : 14.1 14 (1990Ko25). Additional information 7. (874 γ)(325 γ)(θ): W(180°)/W(90°)=0.83 3, W(55°)/W(90°)=1.02 4.
1384.16	4 ⁺	525.3 1	42 8	858.91	4 ⁺	E2+M1		I_γ : 2.0 6 (1990Ko25). Additional information 8. δ : +0.84 +29-18 or ∞ . (525 γ)(534 γ)(θ): W(180°)/W(90°)=0.92 5, W(55°)/W(90°)=0.87 4.
		562.0 1	100 20	822.21	2 ⁺			I_γ : 2.7 6 (1990Ko25). Additional information 9. (562 γ)(822 γ)(θ): W(180°)/W(90°)=1.24 8, W(55°)/W(90°)=1.07 6.
		1058.7 1	10.0 20	325.40	2 ⁺			(1059 γ)(325 γ)(θ): W(180°)/W(90°)=1.13 12, W(55°)/W(90°)=0.91 8.
1497.14	2 ⁺	297.7 1	14 3	1199.48	3 ⁺	M1+E2		δ : +0.97 +60-17 or +0.62 +18-29. (339 γ)(336 γ)(θ): W(180°)/W(90°)=1.03 5, W(55°)/W(90°)=1.06 5.
		338.7 1	46 9	1158.47	0 ⁺			(339 γ)(833 γ)(θ): W(180°)/W(90°)=1.03 8, W(55°)/W(90°)=1.00 6.
		674.9 1	100 20	822.21	2 ⁺	M1+E2	+0.41 7	I_γ : 6.3 8 (1990Ko25). Additional information 10.
		1171.6 1	35 7	325.40	2 ⁺	M1+E2	-1.4 2	I_γ : 1.0 5 (1990Ko25). Additional information 11.
		1497.2 3	3.7 11	0.0	0 ⁺			
1543.18	6 ⁺	684.3 1	100	858.91	4 ⁺			I_γ : <0.5 (?) (1990Ko25). Additional information 12.
1656.00		271.9 3	9.4 19	1384.16	4 ⁺			(272 γ)(562 γ)(θ): W(180°)/W(90°)=0.82 9, W(55°)/W(90°)=0.91 7.
		456.5 1	100 20	1199.48	3 ⁺			I_γ : 3.0 8 (1990Ko25). Additional information 13.

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^{132}Pr ε decay (1.6 min) **1998Ga43** (continued) $\gamma(^{132}\text{Ce})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\ddagger	E_f	J_f^π	Mult.#	$\delta^\#$	Comments
1656.00		797.1 1	27 5	858.91	4 ⁺			(457 γ)(377 γ)(θ): W(180°)/W(90°)=1.05 7, W(55°)/W(90°)=0.95 5. (797 γ)(534 γ)(θ): W(180°)/W(90°)=0.89 7, W(55°)/W(90°)=0.85 6.
1714.21		1388.8 1	100	325.40	2 ⁺			
1734.73	2 ⁺	237.6 3	8.6 17	1497.14	2 ⁺	E2+M1	-8 3	
		351.4 @&		1384.16	4 ⁺			
		535.2 1	16.7 33	1199.48	3 ⁺			(535 γ)(377 γ)(θ): W(55°)/W(90°)=0.75 6. (576 γ)(336 γ)(θ): W(180°)/W(90°)=1.01 12, W(55°)/W(90°)=1.05 9. (576 γ)(833 γ)(θ): W(55°)/W(90°)=1.2 3.
		576.3 3	7.2 14	1158.47	0 ⁺			
		875.8 3	2.6 17	858.91	4 ⁺			Additional information 14.
		912.5 1	100 20	822.21	2 ⁺	M1+E2	-0.28 7	I_γ : 3.4 10 (1990Ko25). Additional information 15.
		1409.3 1	70 14	325.40	2 ⁺	M1(+E2)	-0.08 6	I_γ : 1.5 5 (1990Ko25). Additional information 16.
								(1409 γ)(325 γ)(θ): W(180°)/W(90°)=1.55 4, W(55°)/W(90°)=1.181 19.
1808.43	(2 ⁺ ,3,4 ⁺)	949.5 1	48 10	858.91	4 ⁺			
		986.4 3	2.9 24	822.21	2 ⁺			
		1483.0 1	100 20	325.40	2 ⁺			
1814.77	(5 ⁺)	430.8 3	37 14	1384.16	4 ⁺			
		615.3 1	100 20	1199.48	3 ⁺			
		955.8 1	35 7	858.91	4 ⁺			
1892.8?		692.7 @&		1199.48	3 ⁺			
		1034 @&		858.91	4 ⁺			E_γ : a 1037.4 γ is placed from 2988 level (1998Ga43).
		1071 @&		822.21	2 ⁺			E_γ : a 1073.1 γ is placed from 1932 level (1998Ga43).
1922.81	(2 ⁺ ,3,4 ⁺)	1063.9 1	46 9	858.91	4 ⁺			
		1100.6 1	11.8 24	822.21	2 ⁺			
		1597.4 1	100 20	325.40	2 ⁺			
1932.02	(4 ⁺)	434.9 1	100 20	1497.14	2 ⁺			(435 γ)(339 γ)(θ): W(180°)/W(90°)=1.09 12, W(55°)/W(90°)=1.06 8. (548 γ)(562 γ)(θ): W(180°)/W(90°)=1.31 11, W(55°)/W(90°)=1.05 8.
		548.0 1	90 18	1384.16	4 ⁺	(M1+E2)	≤ 1.8	
		732.5 1	47 9	1199.48	3 ⁺			
		1073.1 1	90 18	858.91	4 ⁺	(M1+E2)	≤ 1.5	(1073 γ)(534 γ)(θ): W(180°)/W(90°)=1.44 12, W(55°)/W(90°)=1.04 7.
		1109.8 1	17 3	822.21	2 ⁺			
		1606.5 1	28 6	325.40	2 ⁺			
1950.72	(2 ⁺ ,3,4 ⁺)	216.0 1	13 3	1734.73	2 ⁺			
		294.8 1	10.0 20	1656.00				
		453.6 1	31 6	1497.14	2 ⁺			
		566.5 3	6.0 12	1384.16	4 ⁺			
		751.2 1	100 20	1199.48	3 ⁺			(751 γ)(377 γ)(θ): W(180°)/W(90°)=0.96 9, W(55°)/W(90°)=0.96 6. (1092 γ)(534 γ)(θ): W(180°)/W(90°)=0.70 7, W(55°)/W(90°)=0.77 5. (1129 γ)(822 γ)(θ): W(180°)/W(90°)=1.05 11, W(55°)/W(90°)=92 7.
		1091.8 1	44 9	858.91	4 ⁺			
		1128.6 1	92 18	822.21	2 ⁺			
		1625.2 1	69 14	325.40	2 ⁺			
1996.51		1671.1 1	100	325.40	2 ⁺			
2038.93		383.0 1	82 16	1656.00				
		654.9 1	38 8	1384.16	4 ⁺			

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^{132}Pr ε decay (1.6 min) **1998Ga43** (continued) $\gamma(^{132}\text{Ce})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\ddagger	E_f	J_f^π	Comments
2038.93		839.4 1	79 16	1199.48	3 ⁺	
		1179.9 1	100 20	858.91	4 ⁺	
2049.90		1191.0 1	100	858.91	4 ⁺	
2096.90	(2 ⁺ ,3,4 ⁺)	441.0 3	9 2	1656.00		
		599.6 3	7 1	1497.14	2 ⁺	
		712.7 1	15 3	1384.16	4 ⁺	
		897.5 1	45 9	1199.48	3 ⁺	
		1238.0 1	14 3	858.91	4 ⁺	
		1274.7 1	100 20	822.21	2 ⁺	
2139.9	(4 ⁻)	1281 1		858.91	4 ⁺	E_γ : from figure 2 of 1998Ga43 ; not given in Table 4.
2145.71		1820.3 1	100	325.40	2 ⁺	
2169.37		360.9 1	17 3	1808.43	(2 ⁺ ,3,4 ⁺)	
		1844.0 1	100 20	325.40	2 ⁺	
2189.31		1330.4 1	100	858.91	4 ⁺	
2295.71		1970.3 1	100	325.40	2 ⁺	
2330.42		1471.5 1	100	858.91	4 ⁺	
2341.78	(8 ⁻)	527.0 1	56 11	1814.77	(5 ⁺)	
		798.6 1	100 20	1543.18	6 ⁺	
2365.02		708.9 1	100 20	1656.00		
		980.7 1	84 17	1384.16	4 ⁺	
		1506.4 1	33 7	858.91	4 ⁺	
2379.31		2053.9 1	100	325.40	2 ⁺	
2379.81		723.8 1	100	1656.00		
2450.81		1591.9 1	100	858.91	4 ⁺	
2464.62		2139.2 1	100	325.40	2 ⁺	
2483.02	(2 ⁺ ,3,4 ⁺)	1283.5 1	29 6	1199.48	3 ⁺	
		1624.1 3		858.91	4 ⁺	
		1660.8 1	100 20	822.21	2 ⁺	
		2157.6 1	43 9	325.40	2 ⁺	
2508.77	(2 ⁺ ,3,4 ⁺)	774.1 3	3.8 8	1734.73	2 ⁺	
		852.8 3	9.6 19	1656.00		
		1011.5 3	3.4 7	1497.14	2 ⁺	I_γ : 2.6 5 (1990Ko25). Additional information 17.
		1124.6 3	3.1 6	1384.16	4 ⁺	
		1309.2 1	100 20	1199.48	3 ⁺	I_γ : 1.5 3 (1990Ko25). Additional information 18.
		1649.9 1	21 4	858.91	4 ⁺	
		1686.5 1	39 8	822.21	2 ⁺	
		2183.4 1	18 3	325.40	2 ⁺	
2554.17		631.7 3	4.2 8	1922.81	(2 ⁺ ,3,4 ⁺)	
		1354.7 1	11.3 23	1199.48	3 ⁺	
		1731.7 1	48 10	822.21	2 ⁺	
		2228.9 1	100 20	325.40	2 ⁺	
2562.61		2237.2 1	100	325.40	2 ⁺	
2577.86		1378.3 1	78 16	1199.48	3 ⁺	
		2252.5 1	100 20	325.40	2 ⁺	
2606.21		1783.9 1	61 12	822.21	2 ⁺	
		2280.9 1	100 20	325.40	2 ⁺	
2644.72		2319.3 1	100	325.40	2 ⁺	
2650.50		1451.0 1	100	1199.48	3 ⁺	
2719.50		1520.0 1	100	1199.48	3 ⁺	
2740.72	(2 ⁺ ,3,4 ⁺)	643.9 1	30 6	2096.90	(2 ⁺ ,3,4 ⁺)	
		808.6 1	39 8	1932.02	(4 ⁺)	
		1084.6 1	100 20	1656.00		
		1356.5 1	98 20	1384.16	4 ⁺	
		1541.3 1	85 17	1199.48	3 ⁺	

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^{132}Pr ε decay (1.6 min) **1998Ga43** (continued) $\gamma(^{132}\text{Ce})$ (continued)

$E_i(\text{level})$	J_i^π	E_γ^\dagger	I_γ^\ddagger	E_f	J_f^π
2740.72	(2 ⁺ ,3,4 ⁺)	1881.8 1	40 8	858.91	4 ⁺
		1918.5 1	40 8	822.21	2 ⁺
2758.6		2433.2 3	100	325.40	2 ⁺
2761.92		1903.0 1	100	858.91	4 ⁺
2825.92		1967.0 1	100	858.91	4 ⁺
2835.90	(2 ⁺ ,3,4 ⁺)	1977.0 1	40 8	858.91	4 ⁺
		2510.4 3	100 20	325.40	2 ⁺
2857.67		1473.5 1	100	1384.16	4 ⁺
2864.22		2005.3 1	100	858.91	4 ⁺
2866.98	(1,2 ⁺)	1708.5 1	100	1158.47	0 ⁺
2957.44		1222.7 1	29 6	1734.73	2 ⁺
		2632.1 3	100 20	325.40	2 ⁺
2982.73		1247.9 3	21 7	1734.73	2 ⁺
		2657.4 3	100 20	325.40	2 ⁺
2988.12	(3 ⁺ ,4 ⁺)	1037.4 3	8.3 17	1950.72	(2 ⁺ ,3,4 ⁺)
		1173.3 3		1814.77	(5 ⁺)
		1253.3 3	9.2 18	1734.73	2 ⁺
		2129.2 1	100 20	858.91	4 ⁺
		2165.9 1	21 4	822.21	2 ⁺
		2662.9 3	66 13	325.40	2 ⁺
3070.42		2211.5 1	100	858.91	4 ⁺
3145.9		2820.5 3	100	325.40	2 ⁺
3316.3		2990.9 3	100	325.40	2 ⁺
3317.5		2458.6 3	100	858.91	4 ⁺
3331.8		2472.9 3	100	858.91	4 ⁺
3332.6		2510.4 3	100	822.21	2 ⁺
3378.4	(2 ⁺ ,3,4 ⁺)	2519.5 3	100 20	858.91	4 ⁺
		3053.1 5	47 9	325.40	2 ⁺
3412.81		2213.3 1	100	1199.48	3 ⁺
3550.70		1894.7 1	82 16	1656.00	
		2166.5 1	100 20	1384.16	4 ⁺
3682.00		2025.9 1	86 17	1656.00	
		2297.9 1	100 20	1384.16	4 ⁺
3702.04	(2 ⁺ ,3,4 ⁺)	2843.2 3	25 5	858.91	4 ⁺
		2879.7 3	100 20	822.21	2 ⁺
3721.83		2065.8 1	100	1656.00	
3825.33		1893.3 1	100	1932.02	(4 ⁺)
3863.44		1931.4 1	100	1932.02	(4 ⁺)
3863.84	(2 ⁺ ,3,4 ⁺)	2129.1 1	100 20	1734.73	2 ⁺
		3004.9 5	26 5	858.91	4 ⁺
4270.65		2338.6 1	100	1932.02	(4 ⁺)
4271.1		2615.1 3	100	1656.00	
4348.8		2416.8 3	100	1932.02	(4 ⁺)
4352.9		2696.9 3	100	1656.00	
4390.4		3006.2 5	100	1384.16	4 ⁺
4473.9		2817.9 3	100	1656.00	

[†] From **1998Ga43**. The uncertainties are assigned as follows from a communication from one of the authors (A. Gade) of **1998Ga43** on June 13, 2003 in response to enquiry by B. Singh: 0.1 keV for E_γ up to 2400, 0.3 keV for 2400-3000, and 0.5 keV above 3000; 0.3 keV for many of the weak transitions (<10% branching).

[‡] Relative branching ratios. Relative gamma-ray intensities are available for only 17 γ rays from **1990Ko25** and are given here under comments. Relative intensities from **1998Ga43** are not available as communicated by one of the authors (A. Gade) on June 13, 2003 in response to enquiry by B. Singh.

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^{132}Pr ε decay (1.6 min) **1998Ga43** (continued)

$\gamma(^{132}\text{Ce})$ (continued)

From $\gamma\gamma(\theta)$.

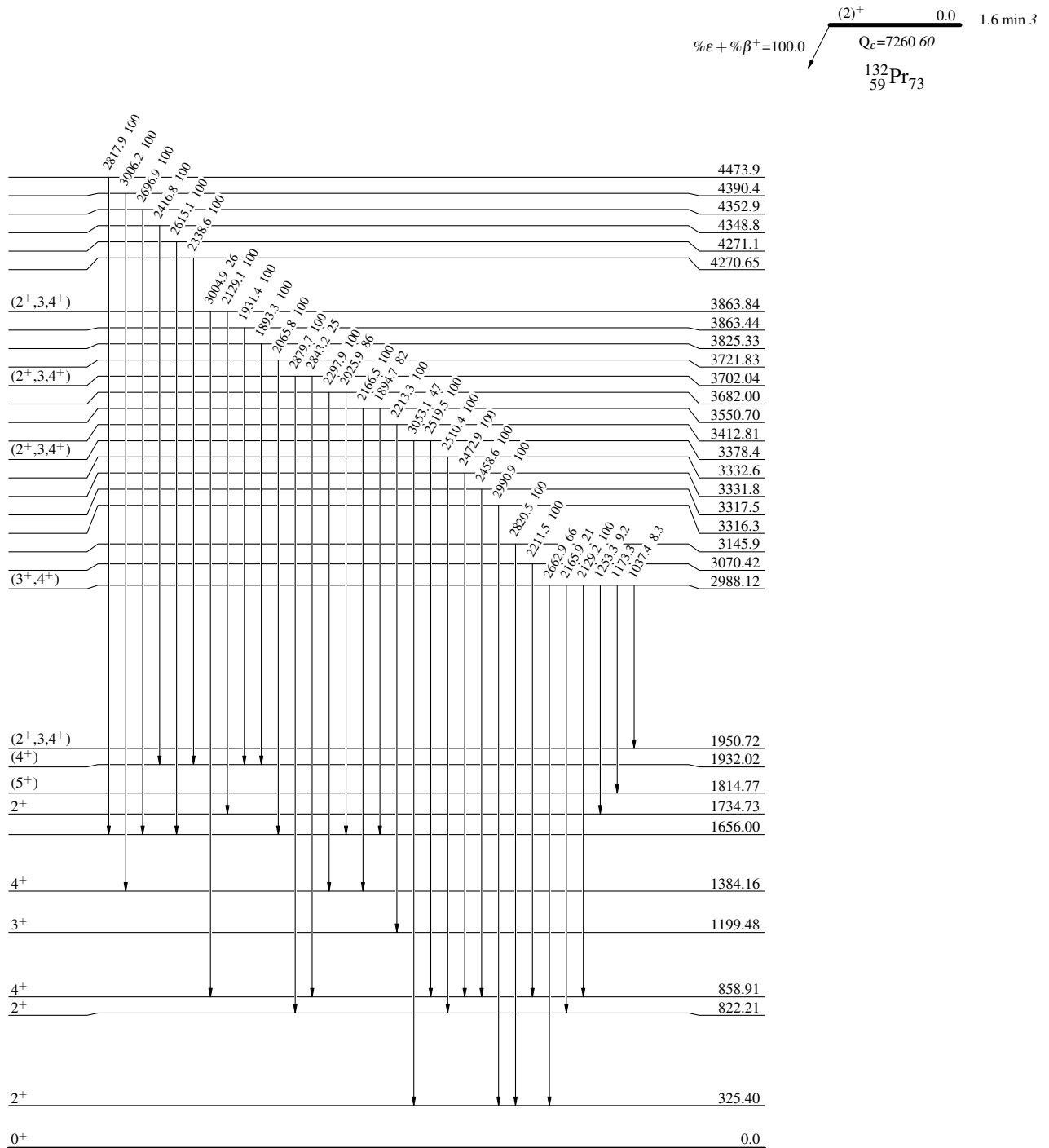
@ From **1988Ba42** only; treated as questionable by the evaluators.

& Placement of transition in the level scheme is uncertain.

^{132}Pr ϵ decay (1.6 min) 1998Ga43

Decay Scheme

Intensities: Relative photon branching from each level

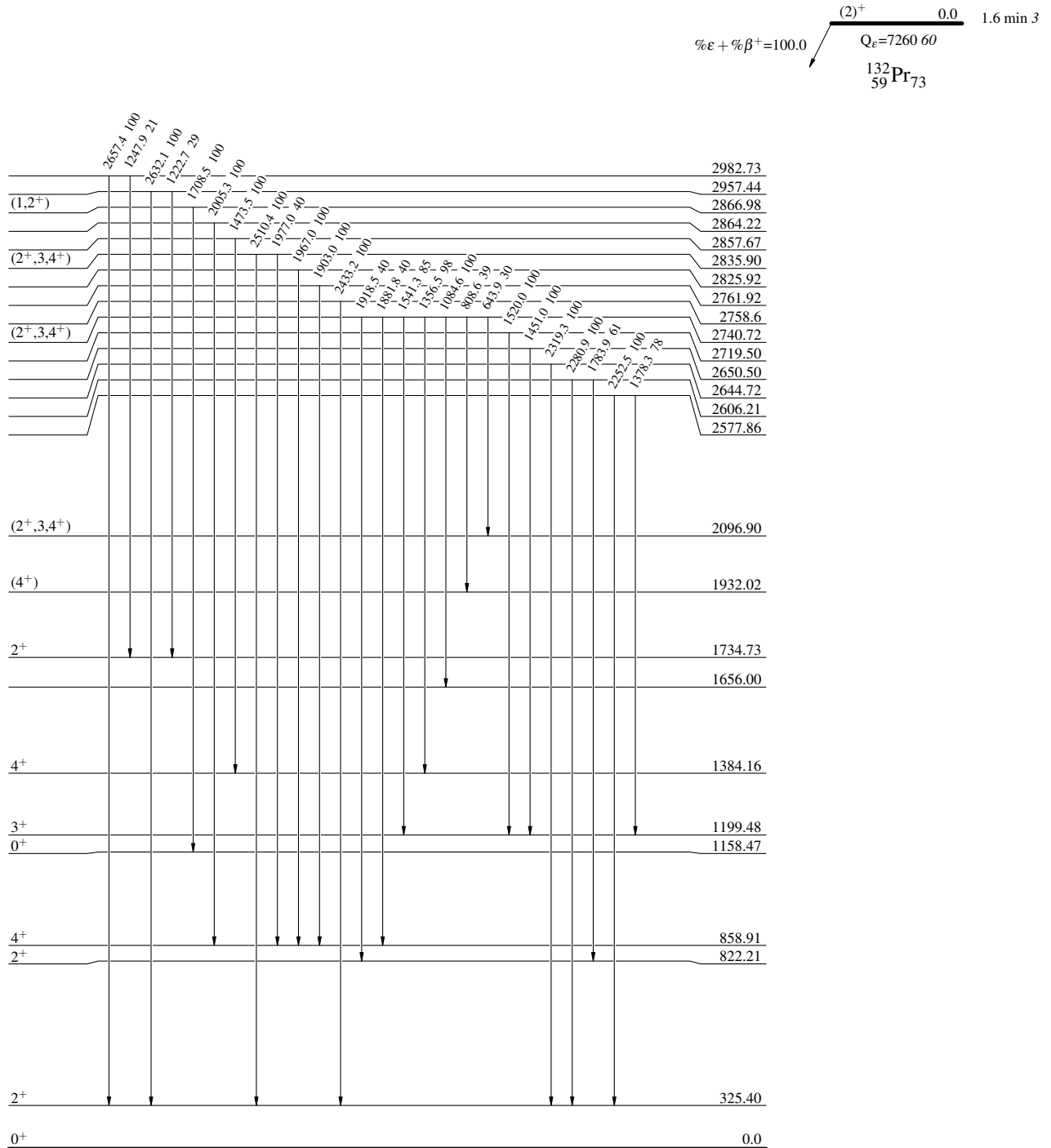


$^{132}_{58}\text{Ce}_{74}$

^{132}Pr ϵ decay (1.6 min) 1998Ga43

Decay Scheme (continued)

Intensities: Relative photon branching from each level

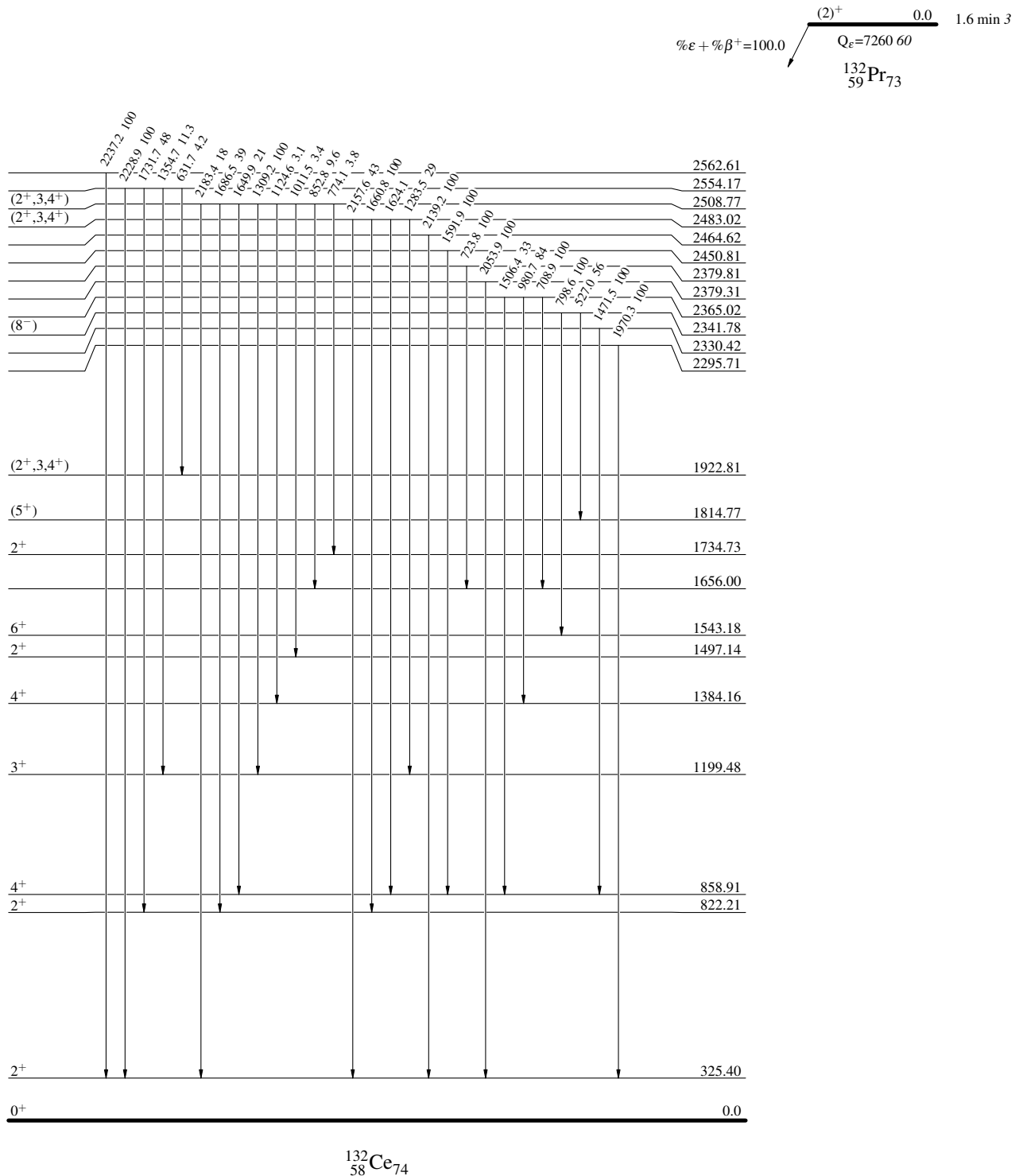


$^{132}_{58}\text{Ce}_{74}$

¹³²Pr ε decay (1.6 min) 1998Ga43

Decay Scheme (continued)

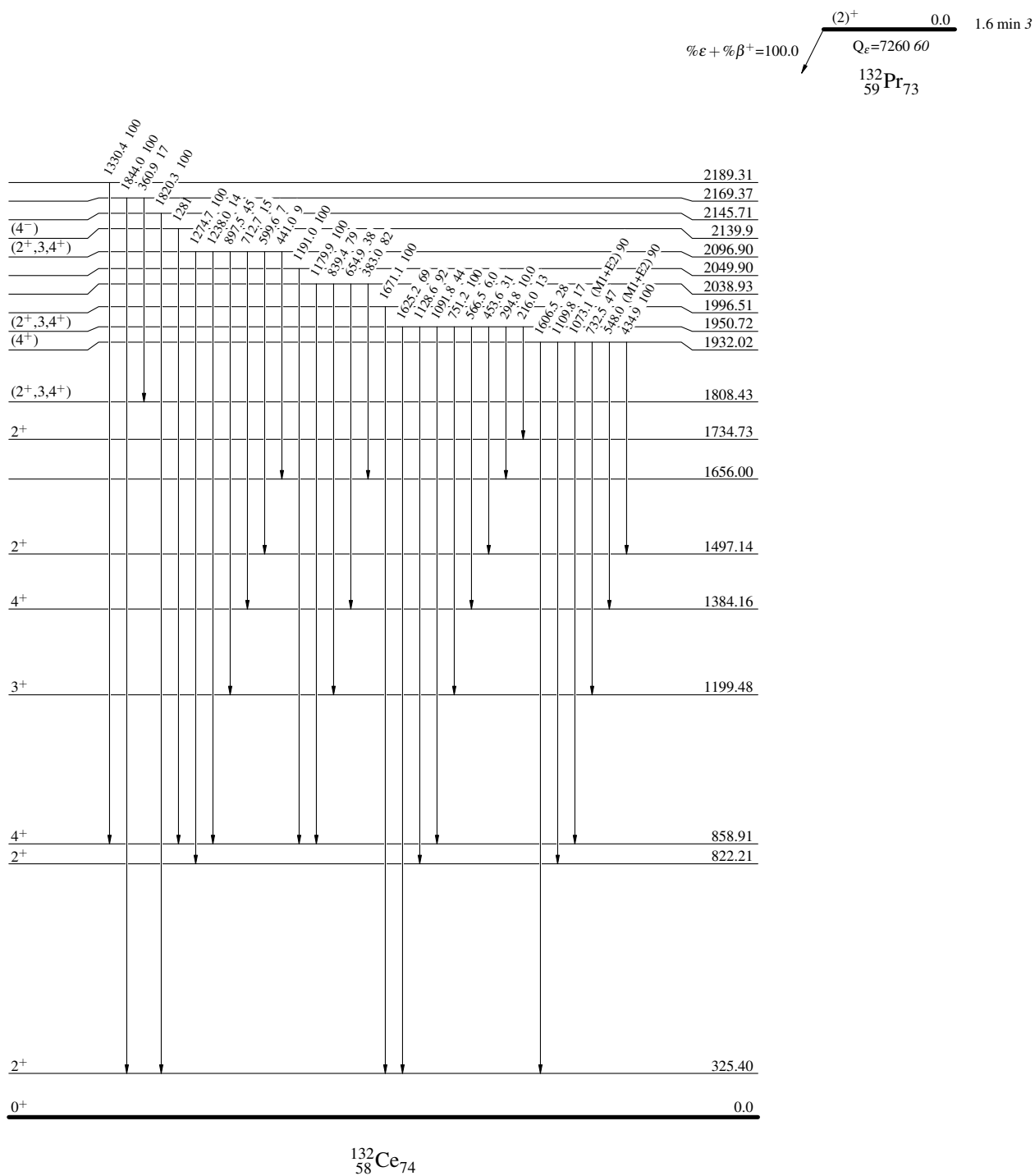
Intensities: Relative photon branching from each level



^{132}Pr ϵ decay (1.6 min) 1998Ga43

Decay Scheme (continued)

Intensities: Relative photon branching from each level



^{132}Pr ϵ decay (1.6 min) 1998Ga43

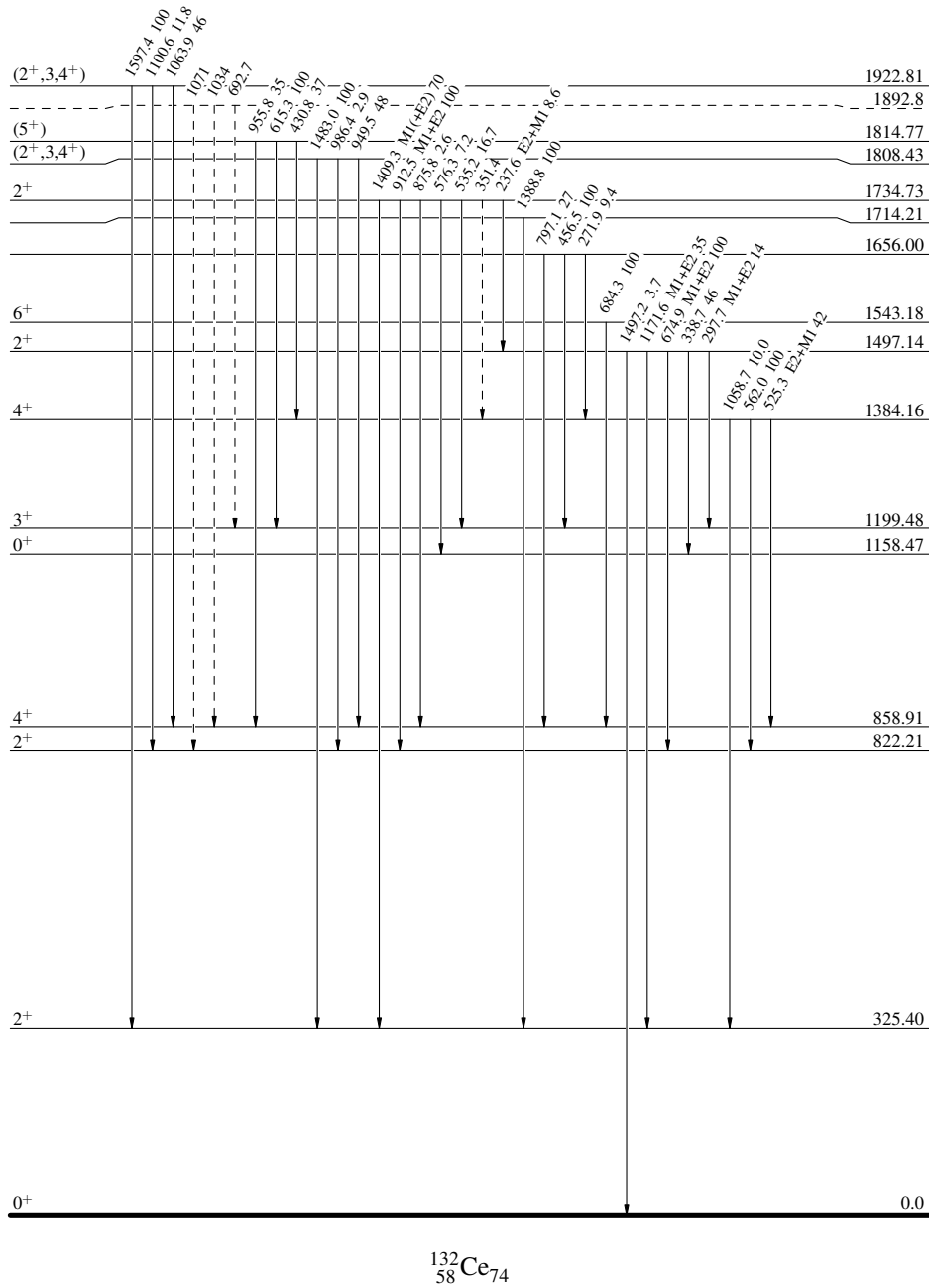
Decay Scheme (continued)

Legend

Intensities: Relative photon branching from each level

----- γ Decay (Uncertain)

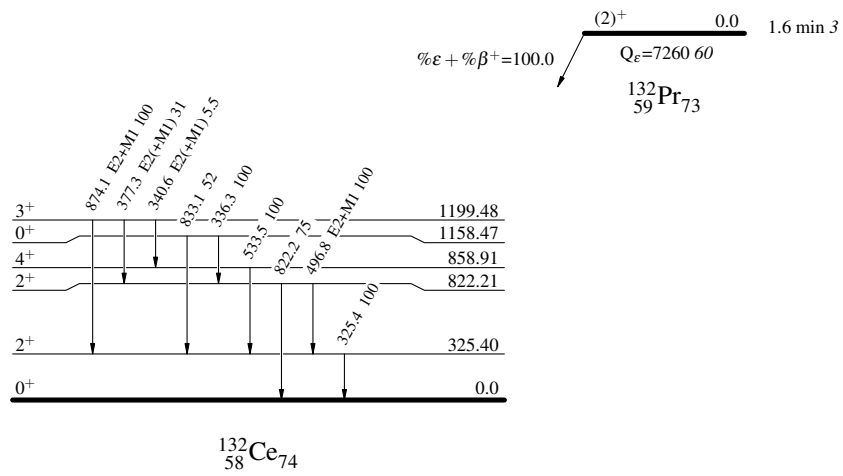
$^{132}_{59}\text{Pr}_{73}$ (2)⁺ 0.0 1.6 min 3
Q ϵ =7260 60
% ϵ + % β^+ =100.0

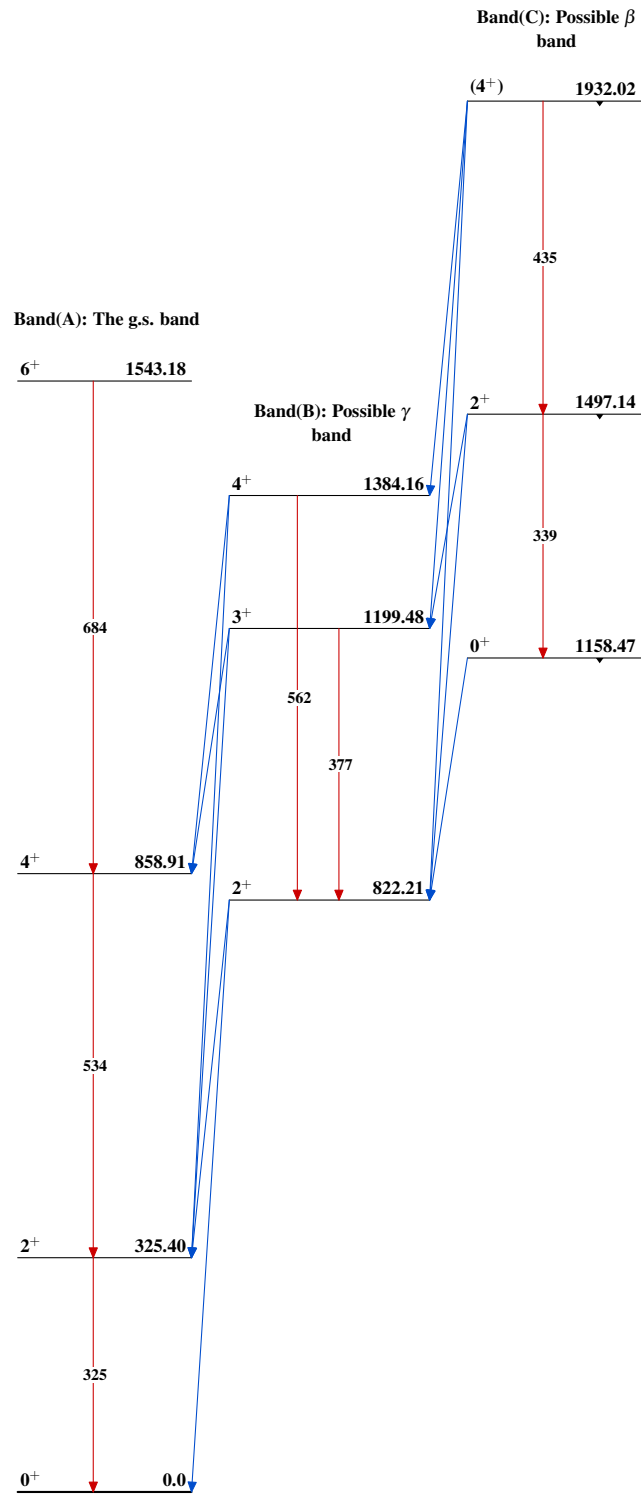


^{132}Pr ϵ decay (1.6 min) 1998Ga43

Decay Scheme (continued)

Intensities: Relative photon branching from each level



^{132}Pr ϵ decay (1.6 min) 1998Ga43 $^{132}_{58}\text{Ce}_{74}$