

¹⁸³Re ε decay [1977Br22,1974TaZX,1972Br55](#)

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	Coral M. Baglin	NDS 134, 149 (2016)	15-Apr-2015

Parent: ¹⁸³Re: E=0.0; J^π=5/2⁺; T_{1/2}=70.0 d 14; Q(ε)=556 8; %ε decay=100.0

Other references: [1962Ha24](#), [1970Ag06](#), [1973Kr01](#), [1974HeYW](#), [1980Ar22](#).

Total energy release for this decay scheme is 546 49 cf. Q_xBR=556 8.

¹⁸³W Levels

E(level) [†]	J ^π [‡]	T _{1/2}	Comments
0.0	1/2 ⁻		
46.4841 9	3/2 ⁻		
99.0802 11	5/2 ⁻		
207.0153 16	7/2 ⁻		
208.8114 14	3/2 ⁻		
291.7286 18	5/2 ⁻		
308.950 4	9/2 ⁻		
412.1017 20	7/2 ⁻		
453.0779 19	7/2 ⁻	18.2 ns 5	T _{1/2} : from 1967Me01 . Other measurement 19 ns (1966Ho13).

[†] From least-squares fit to E_γ.

[‡] From Adopted Levels.

ε radiations

E(decay)	E(level)	I _ε [†]	Log ft	Comments
(103 8)	453.0779	4.7 5	6.78 14	εK=0.38 9; εL=0.45 6; εM+=0.168 25
(144 8)	412.1017	0.59 14	8.18 13	εK=0.60 3; εL=0.298 18; εM+=0.105 8
(247 8)	308.950	0.08 3	8.95 ^{1u} 18	εK=0.516 17; εL=0.352 12; εM+=0.131 6
(264 8)	291.7286	15.6 15	7.50 6	εK=0.739 4; εL=0.197 3; εM+=0.0649 11
(347 8)	208.8114	69 7	7.15 6	εK=0.7656 19; εL=0.1769 14; εM+=0.0574 6
(349 8)	207.0153	0.8 6	9.1 4	εK=0.7661 19; εL=0.1767 14; εM+=0.0573 6
(457 8)	99.0802	4.4 13	8.63 13	εK=0.7836 10; εL=0.1639 7; εM+=0.0525 3
(510 8)	46.4841	4 8	8.8 9	εK=0.7890 8; εL=0.1600 6; εM+=0.05101 21
(556 8)	0.0	1.7 6	9.22 ^{1u} 16	εK=0.7380 19; εL=0.1966 14; εM+=0.0655 6

I(ε+β⁺): from [1977Br22](#) based on measured I(K x ray)/I_γ. The log ft is comparable to that for the unique first-forbidden transition to the 309 level.

[†] Absolute intensity per 100 decays.

γ(¹⁸³W)

E _γ [‡]	I _γ ^{#a}	E _i (level)	J _i ^π	E _f	J _f ^π	Mult. [@]	δ	α [†]	Comments
40.976 1	0.8 3	453.0779	7/2 ⁻	412.1017	7/2 ⁻	M1		11.01	α(L)=8.52 12; α(M)=1.94 3 α(N)=0.467 7; α(O)=0.0761 11; α(P)=0.00540 8 I _γ : from 1977Br22 . Mult.: L1:M1=0.98 25:0.22 5, α(L1) _{exp} =9 3 (1980Ar22). δ(M1,E2)≤0.6 from α(L1) _{exp} . α(L)=6.46 22; α(M)=1.49 6
46.484 1	235 22	46.4841	3/2 ⁻	0.0	1/2 ⁻	M1+E2	-0.084 13	8.4 3	

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^{183}Re ε decay **1977Br22,1974TaZX,1972Br55** (continued) $\gamma(^{183}\text{W})$ (continued)

E_γ ‡	I_γ #a	E_i (level)	J_i^π	E_f	J_f^π	Mult. @	δ	α^\dagger	Comments
									$\alpha(\text{N})=0.357$ 13; $\alpha(\text{O})=0.0572$ 18; $\alpha(\text{P})=0.00370$ 6 Mult.: L1/L2=6.8 4, L2/L3=15.6 11, L2/L3=2.30 25, M1/M2=6.5 6, M1/M3=14.6 14, M2/M3=2.2 3 (1970Ag06); L1:L2:L3:M:N=3000:490:220:950:280 (1962Ha24); L1:L2:M1:M2:M3:N:O=180 20:26 3:12 2:42 4:7.0 10:3.5 5:10 1:2.0 3, $\alpha(\text{L1})_{\text{exp}}=5.1$ 6 (1980Ar22). %I γ =8.0 3 assuming adopted decay scheme normalization.
52.596 1	69.8 18	99.0802	5/2 ⁻	46.4841	3/2 ⁻	M1+E2	-0.127 21	6.2 4	$\alpha(\text{L})=4.8$ 3; $\alpha(\text{M})=1.11$ 7 $\alpha(\text{N})=0.267$ 16; $\alpha(\text{O})=0.0422$ 21; $\alpha(\text{P})=0.00256$ 4 Mult.: L1/L2=5.3 4, L2/L3=8.6 7, L2/L3=1.60 17 (1970Ag06); L1:L2:L3:M:N=870:155:100:260:65 (1962Ha24), L1:L2:L3:M1:M2:M3:N:O=36 3:7.0 7:4.2 4:8.5 8:2.5 4:1.0 2:2.1 2, $\alpha(\text{L1})_{\text{exp}}=3.6$ 3 (1980Ar22). δ : 0.127 21 from subshell ratios from 1980Ar22; -0.16 9 from $\gamma\gamma(\theta)$ (1973Kr01); <0.36 from $\alpha(\text{L1})_{\text{exp}}$.
82.919 2	9.2 7	291.7286	5/2 ⁻	208.8114	3/2 ⁻	M1+E2	+0.64 3	8.21	$\alpha(\text{K})=5.10$ 13; $\alpha(\text{L})=2.37$ 10; $\alpha(\text{M})=0.580$ 24 $\alpha(\text{N})=0.138$ 6; $\alpha(\text{O})=0.0199$ 8; $\alpha(\text{P})=0.000518$ 14 I γ : unweighted average of 8.0 1 (1977Br22), 10.4 4 (1974TaZX), 9.3 6 (1972Br55). Mult.: K:L1:L2:M=>50:27:27: \approx 12 (1962Ha24); L1:L2=1.0 2:0.75 14, $\alpha(\text{L1})_{\text{exp}}=0.76$ 16 (1980Ar22). I γ : unweighted average of 27.5 6 (1977Br22), 32 2 (1974TaZX), 9.3 6 (1972Br55). δ : sign from $\gamma\gamma(\theta)$ 1973Kr01, magnitude from analysis of earlier ce data by 1973Kr01; 0.6 3 from $\alpha(\text{L1})_{\text{exp}}$.
84.712 2	30.7 16	291.7286	5/2 ⁻	207.0153	7/2 ⁻	M1+E2	+0.15& 1	7.65	$\alpha(\text{K})=6.22$ 9; $\alpha(\text{L})=1.102$ 20; $\alpha(\text{M})=0.254$ 5 $\alpha(\text{N})=0.0610$ 12; $\alpha(\text{O})=0.00977$ 17; $\alpha(\text{P})=0.000633$ 9 Mult.: K:L1:L2:L3:M:N=>250:<120:9: \approx 5:20:5 (1962Ha24); L1:L2=3.8 5:0.5 1, $\alpha(\text{L1})_{\text{exp}}=0.87$ 12 (1980Ar22). other δ : 0.25 +27-25 from $\alpha(\text{L1})_{\text{exp}}$.
99.080 2	85.7 15	99.0802	5/2 ⁻	0.0	1/2 ⁻	E2		4.05	$\alpha(\text{K})=0.893$ 13; $\alpha(\text{L})=2.39$ 4;

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^{183}Re ε decay **1977Br22,1974TaZX,1972Br55** (continued) $\gamma(^{183}\text{W})$ (continued)

E_γ ‡	I_γ #a	E_i (level)	J_i^π	E_f	J_f^π	Mult. @	δ	α^\dagger	Comments
101.93 4	0.55 5	308.950	9/2 ⁻	207.0153	7/2 ⁻	M1+E2	-0.21 3	4.46	$\alpha(\text{M})=0.605$ 9 $\alpha(\text{N})=0.1424$ 20; $\alpha(\text{O})=0.0195$ 3; $\alpha(\text{P})=7.25 \times 10^{-5}$ 11 Mult.: K:L1:L2:L3:M:N=175:18:270:240:120:30 (1962Ha24); K:L1:L2:L3=10.6 15:1.1 I:14.3 6:13.4 5, $\alpha(\text{L}2)\text{exp}=1.19$ 7 (1980Ar22). $\delta(\text{M}1,\text{E}2)>3.5$ from $\alpha(\text{L}2)\text{exp}$. $\alpha(\text{K})=3.61$ 7; $\alpha(\text{L})=0.657$ 21; $\alpha(\text{M})=0.152$ 6 $\alpha(\text{N})=0.0365$ 13; $\alpha(\text{O})=0.00581$ 17; $\alpha(\text{P})=0.000364$ 7 I γ : from 1977Br22. Mult.: K/L1=4.6 7, L1/L3=4.7 7 (1972Bb21).
103.10 10	<0.17	412.1017	7/2 ⁻	308.950	9/2 ⁻	[M1,E2]		3.9 5	δ : from Adopted Gammas. $\alpha(\text{K})=2.2$ 14; $\alpha(\text{L})=1.3$ 7; $\alpha(\text{M})=0.32$ 19 $\alpha(\text{N})=0.07$ 5; $\alpha(\text{O})=0.011$ 6; $\alpha(\text{P})=0.00022$ 15 I γ : <0.12 5 from 1977Br22. other I γ : 0.3 1 (1974TaZX).
107.933 2	68.8 13	207.0153	7/2 ⁻	99.0802	5/2 ⁻	M1+E2	-0.31 5	3.73	$\alpha(\text{K})=2.95$ 8; $\alpha(\text{L})=0.60$ 4; $\alpha(\text{M})=0.140$ 9 $\alpha(\text{N})=0.0336$ 19; $\alpha(\text{O})=0.00526$ 25; $\alpha(\text{P})=0.000297$ 9 Mult.: K:L1:M:N=470:70:19: \approx 6 (1962Ha24); $\alpha(\text{K})\text{exp}=3.0$ 3 (1980Ar22). other δ : -0.22 10 (1973Kr01); <0.49 from $\alpha(\text{K})\text{exp}$.
109.731 2	91.5 15	208.8114	3/2 ⁻	99.0802	5/2 ⁻	M1+E2	+0.139& 22	3.62 6	$\alpha(\text{K})=2.97$ 5; $\alpha(\text{L})=0.499$ 10; $\alpha(\text{M})=0.1144$ 24 $\alpha(\text{N})=0.0275$ 6; $\alpha(\text{O})=0.00445$ 8; $\alpha(\text{P})=0.000301$ 5 Mult.: K:L1:L2:M=530:80:10:20 (1962Ha24); $\alpha(\text{K})\text{exp}=3.0$ 3 (1980Ar22). other δ : 0.09 +32-9 from $\alpha(\text{K})\text{exp}$.
120.37 9	0.098 17	412.1017	7/2 ⁻	291.7286	5/2 ⁻	E2+M1	\approx 0.38	\approx 2.68	$\alpha(\text{K})\approx 2.10$; $\alpha(\text{L})\approx 0.445$; $\alpha(\text{M})\approx 0.1043$ $\alpha(\text{N})\approx 0.0250$; $\alpha(\text{O})\approx 0.00389$; $\alpha(\text{P})\approx 0.000210$ I γ : from 1977Br22. other I γ : <0.5 (1974TaZX).
144.135 4	4.05 24	453.0779	7/2 ⁻	308.950	9/2 ⁻	M1+E2	+0.07 3	1.669	δ : from Adopted Gammas. $\alpha(\text{K})=1.383$ 20; $\alpha(\text{L})=0.221$ 4; $\alpha(\text{M})=0.0504$ 8 $\alpha(\text{N})=0.01214$ 19; $\alpha(\text{O})=0.00198$ 3; $\alpha(\text{P})=0.0001395$ 21 I γ : unweighted average of 3.66 7 (1977Br22), 4 1 (1974TaZX), 4.5 3

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^{183}Re ε decay **1977Br22,1974TaZX,1972Br55** (continued) $\gamma(^{183}\text{W})$ (continued)

E_γ ‡	I_γ #a	E_i (level)	J_i^π	E_f	J_f^π	Mult. @	δ	α^\dagger	Comments
160.532 4	18.6 2	207.0153	7/2 ⁻	46.4841	3/2 ⁻	E2		0.659	(1974TaZX). Mult.: K:L1=13:1.9, L2 weak (1962Ha24); $\alpha(\text{K})_{\text{exp}}=1.44$ 19 (1980Ar22). δ : from $\gamma\gamma(\theta)$ (1973Kr01). Other: ≤ 0.40 from $\alpha(\text{K})_{\text{exp}}$. $\alpha(\text{K})=0.302$ 5; $\alpha(\text{L})=0.271$ 4; $\alpha(\text{M})=0.0678$ 10 $\alpha(\text{N})=0.01601$ 23; $\alpha(\text{O})=0.00223$ 4; $\alpha(\text{P})=2.30 \times 10^{-5}$ 4 I_γ : from 1977Br22. Mult.: K:L2:M=12:<9:2.2 (1962Ha24).
161.342 14	11.4 15	453.0779	7/2 ⁻	291.7286	5/2 ⁻	M1+E2	≈ 0.2	≈ 1.194	$\alpha(\text{K}) \approx 0.982$; $\alpha(\text{L}) \approx 0.1638$; $\alpha(\text{M}) \approx 0.0375$ $\alpha(\text{N}) \approx 0.00903$; $\alpha(\text{O}) \approx 0.001459$; $\alpha(\text{P}) \approx 9.87 \times 10^{-5}$ I_γ : from 1977Br22. other I_γ : 22 3 from 1974TaZX. Mult.: K:L1=24:<9 (1962Ha24); $\alpha(\text{K})_{\text{exp}}=0.66$ 19 (1980Ar22). δ : 1.0 +8-4 from $\alpha(\text{K})_{\text{exp}}$. $\alpha(\text{K})=0.892$ 14; $\alpha(\text{L})=0.1716$ 25; $\alpha(\text{M})=0.0399$ 6 $\alpha(\text{N})=0.00957$ 14; $\alpha(\text{O})=0.001509$ 22; $\alpha(\text{P})=8.88 \times 10^{-5}$ 14 I_γ : from 1977Br22. Mult.: K:L1:L2:L3:M:N=1300: 220: $\approx 45:21:58:17$ (1962Ha24); $\alpha(\text{K})_{\text{exp}}=0.960$ 20 (1980Ar22). δ : sign from 1973Kr01; 0.22 8 from $\alpha(\text{K})_{\text{exp}}$.
162.330 5	737 4	208.8114	3/2 ⁻	46.4841	3/2 ⁻	M1+E2	+0.41 1	1.115	$\alpha(\text{K})=0.512$ 16; $\alpha(\text{L})=0.1034$ 17; $\alpha(\text{M})=0.0242$ 5 $\alpha(\text{N})=0.00579$ 11; $\alpha(\text{O})=0.000906$ 14; $\alpha(\text{P})=5.06 \times 10^{-5}$ 17 Mult.: K:L1:L2:L3:M=8:1.6: $\approx 0.5:\approx 0.3:0.5$ (1962Ha24); $\alpha(\text{K})_{\text{exp}}=0.51$ 9 (1980Ar22). other δ : 0.6 3 from $\alpha(\text{K})_{\text{exp}}$. $\alpha(\text{K})=0.1615$ 23; $\alpha(\text{L})=0.0991$ 14; $\alpha(\text{M})=0.0246$ 4 $\alpha(\text{N})=0.00583$ 9; $\alpha(\text{O})=0.000823$ 12; $\alpha(\text{P})=1.283 \times 10^{-5}$ 18 I_γ : unweighted average of 1.44 8 (1977Br22) and 1.1 2 (1974TaZX).
192.646 7	8.28 20	291.7286	5/2 ⁻	99.0802	5/2 ⁻	M1+E2	+0.56 & 5	0.647 16	$\alpha(\text{K})=0.505$ 11; $\alpha(\text{L})=0.0819$ 12; $\alpha(\text{M})=0.0187$ 3 $\alpha(\text{N})=0.00450$ 7; $\alpha(\text{O})=0.000730$ 11;
203.269 12	1.27 17	412.1017	7/2 ⁻	208.8114	3/2 ⁻	E2		0.292	
205.081 9	3.9 6	412.1017	7/2 ⁻	207.0153	7/2 ⁻	M1+E2	0.18 6	0.611 12	

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^{183}Re ε decay **1977Br22,1974TaZX,1972Br55** (continued) $\gamma(^{183}\text{W})$ (continued)

E_γ ‡	I_γ #a	E_i (level)	J_i^π	E_f	J_f^π	Mult. @	δ	α^\dagger	Comments
									$\alpha(\text{P})=5.07\times 10^{-5}$ 12 I_γ : unweighted average of 3.5 1 (1977Br22), 5 1 (1974TaZX), 3.2 2 (1974TaZX). Mult.: K:L1=3.8<0.8, M weak (1962Ha24); $\alpha(\text{K})_{\text{exp}}=0.51$ 6 (1980Ar22). δ : 0.13 +34-13 from $\alpha(\text{K})_{\text{exp}}$. $\alpha(\text{K})=0.423$ 23; $\alpha(\text{L})=0.0797$ 14; $\alpha(\text{M})=0.0185$ 4 $\alpha(\text{N})=0.00444$ 9; $\alpha(\text{O})=0.000701$ 11; $\alpha(\text{P})=4.19\times 10^{-5}$ 25 Mult.: K:L1:M:N=100:18:4.8:1.3 (1962Ha24); $\alpha(\text{K})_{\text{exp}}=0.46$ 4 (1980Ar22). other δ : -0.29 4 (1973Kr01); 0.32 +20-32 from $\alpha(\text{K})_{\text{exp}}$. $\alpha(\text{K})=0.1482$ 21; $\alpha(\text{L})=0.0868$ 13; $\alpha(\text{M})=0.0216$ 3 $\alpha(\text{N})=0.00510$ 8; $\alpha(\text{O})=0.000721$ 11; $\alpha(\text{P})=1.185\times 10^{-5}$ 17 I_γ : weighted average from 1977Br22 and 1974TaZX. Mult.: K:L3=2.4;<1.4 (1962Ha24); $\alpha(\text{K})_{\text{exp}}=0.146$ 26 (1980Ar22). $\delta(\text{M1,E2})\geq 3.8$. $\alpha(\text{K})=0.0985$ 14; $\alpha(\text{L})=0.0470$ 7; $\alpha(\text{M})=0.01160$ 17 $\alpha(\text{N})=0.00275$ 4; $\alpha(\text{O})=0.000393$ 6; $\alpha(\text{P})=8.12\times 10^{-6}$ 12 Mult.: K:L3=3.4;<5.4 (1962Ha24); $\alpha(\text{K})_{\text{exp}}=0.099$ 17 (1980Ar22). $\delta(\text{M1,E2})\geq 3.4$ from $\alpha(\text{K})_{\text{exp}}$. $\alpha(\text{K})=0.316$ 5; $\alpha(\text{L})=0.0496$ 7; $\alpha(\text{M})=0.01127$ 16 $\alpha(\text{N})=0.00272$ 4; $\alpha(\text{O})=0.000443$ 7; $\alpha(\text{P})=3.16\times 10^{-5}$ 5 I_γ : weighted average from 1977Br22 and 1974TaZX. Mult.: K:L1= \approx 6: \approx 0.8 (1962Ha24); $\alpha(\text{K})_{\text{exp}}=0.31$ 8 (1980Ar22). δ : ≤ 0.8 from $\alpha(\text{K})_{\text{exp}}$. $\alpha(\text{K})=0.312$ 5; $\alpha(\text{L})=0.0491$ 7; $\alpha(\text{M})=0.01117$ 16 $\alpha(\text{N})=0.00269$ 4; $\alpha(\text{O})=0.000439$ 7; $\alpha(\text{P})=3.12\times 10^{-5}$ 5 I_γ : weighted average from 1977Br22 and 1974TaZX. Mult.: K:L1=29;<5.4 (1962Ha24); $\alpha(\text{K})_{\text{exp}}=0.31$ 3 (1980Ar22). other δ : ≤ 0.42 from $\alpha(\text{K})_{\text{exp}}$.
208.812 2	93.9 4	208.8114	3/2 ⁻	0.0	1/2 ⁻	M1+E2	-0.5 1	0.527 23	
209.890 7	8.29 20	308.950	9/2 ⁻	99.0802	5/2 ⁻	E2		0.262	
244.266 3	13.0 3	453.0779	7/2 ⁻	208.8114	3/2 ⁻	E2		0.1603	
245.243 6	8.0 8	291.7286	5/2 ⁻	46.4841	3/2 ⁻	M1		0.380	
246.062 2	41.7 11	453.0779	7/2 ⁻	207.0153	7/2 ⁻	M1+E2	-0.069& 26	0.375	

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¹⁸³Re ε decay **1977Br22,1974TaZX,1972Br55** (continued)

γ(¹⁸³W) (continued)

<u>E_γ[‡]</u>	<u>I_γ^{#a}</u>	<u>E_i(level)</u>	<u>J_i^π</u>	<u>E_f</u>	<u>J_f^π</u>	<u>Mult.[@]</u>	<u>δ</u>	<u>α[†]</u>	<u>Comments</u>
291.723 7	100.0 3	291.7286	5/2 ⁻	0.0	1/2 ⁻	E2		0.0924	α(K)=0.0613 9; α(L)=0.0237 4; α(M)=0.00580 9 α(N)=0.001376 20; α(O)=0.000200 3; α(P)=5.23×10 ⁻⁶ 8 I _γ : from 1977Br22. Mult.: K:L2:L3:M:N=14:3.2:1.6:1.5:0.45 (1962Ha24).
313.021 5	13.19 27	412.1017	7/2 ⁻	99.0802	5/2 ⁻	M1+E2	+0.225 ^{&} 8	0.190	α(K)=0.1572 23; α(L)=0.0250 4; α(M)=0.00571 8 α(N)=0.001374 20; α(O)=0.000223 4; α(P)=1.567×10 ⁻⁵ 23 Mult.: K:L1:M=5.5:0.9:0.25 (1962Ha24); α(K)exp=0.16 4 (1980Ar22). other δ:≤0.78 from α(K)exp.
353.998 5	17.0 3	453.0779	7/2 ⁻	99.0802	5/2 ⁻	M1+E2	-0.192 ^{&} 18	0.1373 21	α(K)=0.1141 17; α(L)=0.0180 3; α(M)=0.00409 6 α(N)=0.000984 14; α(O)=0.0001604 23; α(P)=1.135×10 ⁻⁵ 17 Mult.: K:L1:M=4.4:0.8:0.2 (1962Ha24); α(K)exp=0.11 3 (1980Ar22). other δ:≤0.93 from α(K)exp.
365.614 9	2.54 22	412.1017	7/2 ⁻	46.4841	3/2 ⁻	E2		0.0480	α(K)=0.0342 5; α(L)=0.01050 15; α(M)=0.00254 4 α(N)=0.000603 9; α(O)=8.92×10 ⁻⁵ 13; α(P)=3.03×10 ⁻⁶ 5 I _γ : unweighted average of 2.13 9 (1977Br22), 2.9 5 (1974TaZX), 2.6 2 (1974TaZX).
406.593 16	1.03 24	453.0779	7/2 ⁻	46.4841	3/2 ⁻	(E2)		0.0358	α(K)=0.0263 4; α(L)=0.00733 11; α(M)=0.001758 25 α(N)=0.000419 6; α(O)=6.25×10 ⁻⁵ 9; α(P)=2.35×10 ⁻⁶ 4 I _γ : unweighted average of 0.79 5 (1977Br22), 1.5 2 (1972Br55), 0.8 4 (1974TaZX).

† Additional information 1.

‡ From 1977Br22.

intensity relative to I(291γ)=100; weighted average of data from 1977Br22, 1974TaZX and 1972Br55, except As noted. other I_γ: 1974HeYW.

@ From subshell ratios, α, and γγ(θ) measurements of 1962Ha24, 1970Ag06, 1980Ar22, except where noted. Conversion coefficients attributed to 1980Ar22 were calculated by the evaluator using I(ce) from 1980Ar22 and I_γ adopted here, normalized so α(K)exp(99)=α(K)(E2 theory)=0.893 and α(K)exp(292)=α(K)(E2 theory)=0.0613.

${}^{183}\text{Re}$ ε decay [1977Br22](#), [1974TaZX](#), [1972Br55](#) (continued)

$\gamma({}^{183}\text{W})$ (continued)

[&] From $\gamma\gamma(\theta)$ measurements ([1973Kr01](#)).

^a For absolute intensity per 100 decays, multiply by 0.034 3.

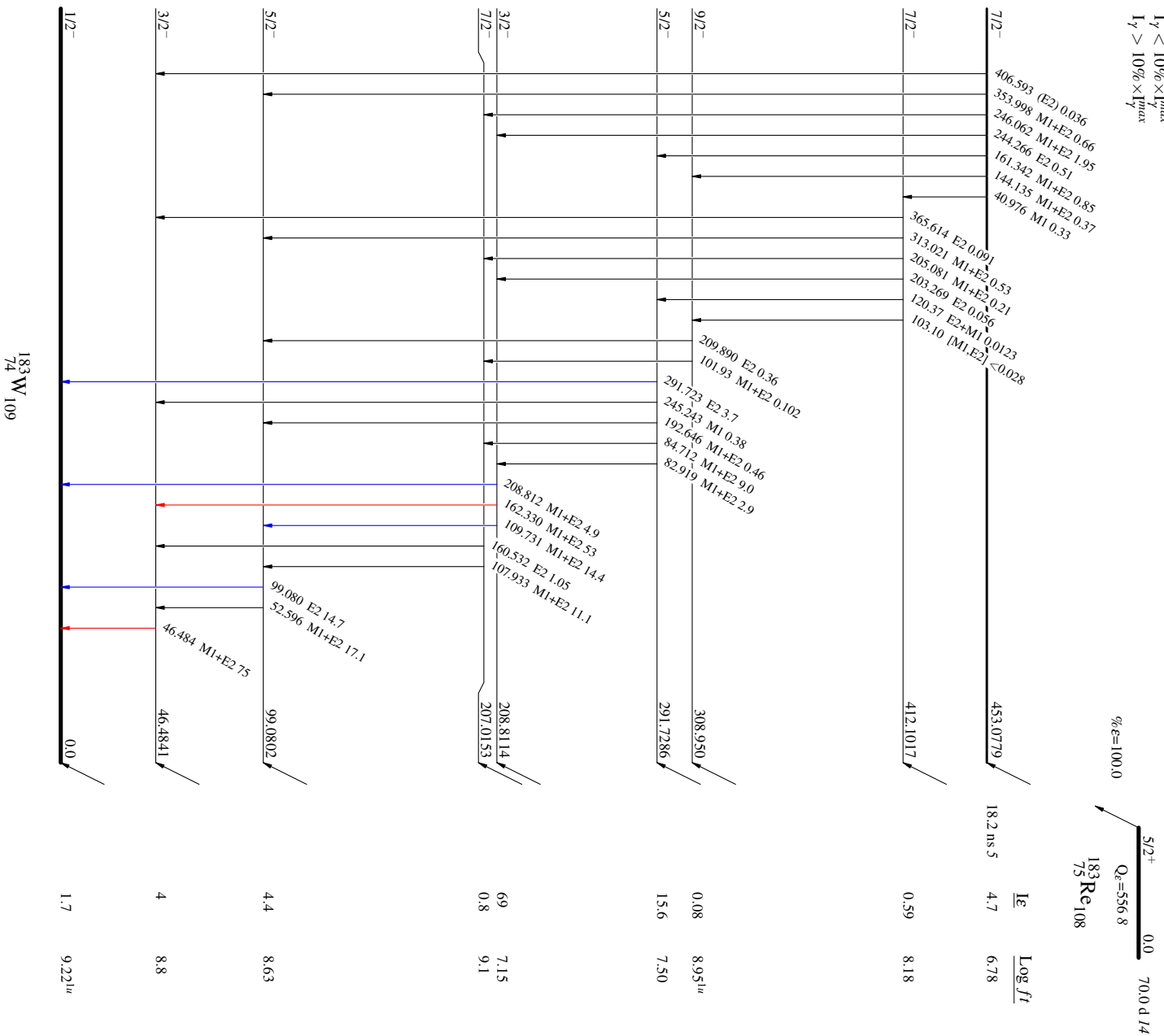
¹⁸³Re ϵ decay 1977Br22,1974IaZK,1972Br55

Decay Scheme

Legend

Intensities: $I_{\gamma+\epsilon\beta}$ per 100 parent decays

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



¹⁸³W
₇₄ 109