^{232}Th(n,γ) E=2,24 keV 1979Je01

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	B. Singh, J. K. Tuli, E. Browne	NDS 170, 499 (2020)	8-Oct-2020

1979Je01: neutron beam from HFBR at BNL, measured primary γ rays from 2-keV and 24-keV average resonance captures using Ge(Li) detector. The energy calibration to known γ rays from low-lying levels in ^{233}Th and in ^{228}Th contaminant. Predominantly s-wave captures contribute to the 2-keV resonance, and p- and s-wave captures are involved for the 24-keV resonance states.
Additional information 1.

^{233}Th Levels

E(level)[†]	J$^{\pi}$[‡]
0.0	$1/2^+,3/2^+$
6.0 *3*	$5/2^+$
16.9 *3*	$1/2^+,3/2^+$
53.9 *2*	$5/2^+$
261.0 *4*	$5/2^+$
336.0 *3*	$1/2^+,3/2^+$
372.2 *4*	$5/2^+$
539.6	$1/2^-,3/2^-$
572.6 *2*	$1/2^-,3/2^-$
583.1 *5*	1/2,3/2
586.0 *2*	$1/2^-,3/2^-$
612.1 *4*	$1/2^+,3/2^+$
628.9 *7*	$5/2^+$
681.8 *2*	$1/2^-,3/2^-$
713.4 *3*	$1/2^+,3/2^+$
722.0 *4*	$1/2^+,3/2^+$
741.5 *3*	$1/2^-,3/2^-$
767.8 *5*	$1/2^+,3/2^+$
781.9 *7*	$1/2^+,3/2^+$
814.6 *3*	$1/2^+,3/2^+$
840.9 *2*	$1/2^-,3/2^-$
851.9? *6*	$(5/2)^+$
861.6 *5*	$1/2^+,3/2^+$
873.1 *10*	$(5/2)^+$
885.1 *10*	$5/2^+$
891.6 *5*	$1/2^+,3/2^+$
904.6 *5*	$1/2^+,3/2^+$
918.3 *12*	$1/2^-,3/2^-$
924.7 *4*	$1/2^-,3/2^-$
947.4 *4*	1/2,3/2
957.6 *12*	$(5/2)^+$
968.7 *6*	$1/2^+,3/2^+$
984.9 *6*	$1/2^+,3/2^+$
1013.4 *3*	$1/2^-,3/2^-$
1031.2 *3*	$1/2^-,3/2^-$
1039.9? *4*	1/2,3/2
1050.4 *3*	$1/2^-,3/2^-$
1061.3 *6*	$1/2^+,3/2^+$
1074.3 *3*	$1/2^-,3/2^-$
1087.4 *5*	$1/2^{(+)},3/2^{(+)}$
1101.8 *8*	$1/2^+,3/2^+$
1115.3 *7*	$1/2^+,3/2^+$
1133.4 *6*	$1/2^+,3/2^+$
1151.0 *4*	$1/2^-,3/2^-$

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^{232}Th(n,γ) E=2,24 keV 1979Je01 (continued)

^{233}Th Levels (continued)

E(level)†	Jπ‡	Comments
1171.8 *8*	1/2⁻,3/2⁻	
1184.5 *5*	1/2(+),3/2(+)	
1212.5 *12*	1/2,3/2,5/2+	
1225.7 *7*	1/2+,3/2+	
1257.1 *4*	1/2⁻,3/2⁻	
1262.3 *4*	1/2⁻,3/2⁻	
1282.7 *6*	1/2⁻,3/2⁻	
1293.4 *4*	1/2⁻,3/2⁻	
1304.8 *6*	1/2+,3/2+	
1312.8 *3*	1/2⁻,3/2⁻	
1330.2? *6*	1/2,3/2	
1338.5 *4*	1/2⁻,3/2⁻	
1350.6 *5*	1/2⁻,3/2⁻	
1389.8 *6*	1/2⁻,3/2⁻	
1394.8 *6*	1/2⁻,3/2⁻	
1446.5 *6*	1/2,3/2	
1459.2 *6*	1/2(−),3/2(−)	
1479.1 *4*	1/2⁻,3/2⁻	
1497.8 *4*	1/2⁻,3/2⁻	
1532.7 *8*	1/2,3/2	
1580.2 *8*	1/2(−),3/2(−)	
1588.2 *5*	1/2⁻,3/2⁻	
1668.0 *12*	1/2+,3/2+	
1688.7 *13*	1/2+,3/2+	
1698 *2*	1/2(−),3/2(−)	
1717.4 *4*	1/2⁻,3/2⁻	
1728.0 *4*	1/2⁻,3/2⁻	
(4788.4)	1/2,3/2⁻	E(level): S(n)+E(n), where S(n)=4786.39 *9* (2017Wa10), E(n)=2 keV. Jπ: s-wave and p-wave capture in 0+ g.s. of ^{232}Th; s-wave capture is expected to be dominant.
(4810.4)	1/2,3/2⁻	E(level): S(n)+E(n), where S(n)=4786.39 *9* (2017Wa10), E(n)=24 keV. Jπ: s-wave and p-wave capture in 0+ g.s. of ^{232}Th; s-wave capture is expected to be dominant.

† Deduced by 1979Je01 on the basis that the 4248.8γ in the 2-keV capture populates the level at 539.6 keV, the 4793.7γ in the 24-keV capture populates the level at 16.87 keV.

‡ Assigned by 1979Je01 from comparison of primary Iγ values from 2- and 24-keV neutron captures.

γ(^{233}Th)

Eγ†	Iγ‡	Ei(level)	J_i^π	Ef	J_f^π
3060.3 *4*	54 *16*	(4788.4)	1/2,3/2⁻	1728.0	1/2⁻,3/2⁻
3070.9 *4*	72 *22*	(4788.4)	1/2,3/2⁻	1717.4	1/2⁻,3/2⁻
3082.3@ *4*	<20	(4810.4)	1/2,3/2⁻	1728.0	1/2⁻,3/2⁻
3089.2#@ *8*	47 *19*	(4788.4)	1/2,3/2⁻	1698	1/2(−),3/2(−)
3092.9@ *4*	<20	(4810.4)	1/2,3/2⁻	1717.4	1/2⁻,3/2⁻
3099.6 *13*	17 *7*	(4788.4)	1/2,3/2⁻	1688.7	1/2+,3/2+
3111.2#@ *8*	19 *8*	(4810.4)	1/2,3/2⁻	1698	1/2(−),3/2(−)
3120.3 *12*	18 *8*	(4788.4)	1/2,3/2⁻	1668.0	1/2+,3/2+
3121.6 *13*	16 *6*	(4810.4)	1/2,3/2⁻	1688.7	1/2+,3/2+
3142.3@ *12*	<20	(4810.4)	1/2,3/2⁻	1668.0	1/2+,3/2+
3200.1 *5*	95 *29*	(4788.4)	1/2,3/2⁻	1588.2	1/2⁻,3/2⁻

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^{232}Th(n,γ) E=2,24 keV 1979Je01 (continued)

$\gamma(^{233}Th)$ (continued)

E_γ †	I_γ ‡	E_i(level)	J_i^π	E_f	J_f^π
3208.1 *8*	48 *20*	(4788.4)	1/2,3/2$^-$	1580.2	1/2$^{(-)}$,3/2$^{(-)}$
3222.1 *5*	32 *13*	(4810.4)	1/2,3/2$^-$	1588.2	1/2$^-$,3/2$^-$
3230.1@ *8*	<20	(4810.4)	1/2,3/2$^-$	1580.2	1/2$^{(-)}$,3/2$^{(-)}$
3255.6 *8*	40 *12*	(4788.4)	1/2,3/2$^-$	1532.7	1/2,3/2
3277.6@ *8*	<20	(4810.4)	1/2,3/2$^-$	1532.7	1/2,3/2
3290.5 *4*	65 *13*	(4788.4)	1/2,3/2$^-$	1497.8	1/2$^-$,3/2$^-$
3309.2 *4*	91 *19*	(4788.4)	1/2,3/2$^-$	1479.1	1/2$^-$,3/2$^-$
3312.5@ *4*	<20	(4810.4)	1/2,3/2$^-$	1497.8	1/2$^-$,3/2$^-$
3329.1#@ *6*	51 *16*	(4788.4)	1/2,3/2$^-$	1459.2	1/2$^{(-)}$,3/2$^{(-)}$
3331.2@ *4*	<20	(4810.4)	1/2,3/2$^-$	1479.1	1/2$^-$,3/2$^-$
3341.8 *6*	39 *16*	(4788.4)	1/2,3/2$^-$	1446.5	1/2,3/2
3351.1#@ *6*	19 *10*	(4810.4)	1/2,3/2$^-$	1459.2	1/2$^{(-)}$,3/2$^{(-)}$
3363.8@ *6*	<20	(4810.4)	1/2,3/2$^-$	1446.5	1/2,3/2
3393.5#@ *6*	66 *20*	(4788.4)	1/2,3/2$^-$	1394.8	1/2$^-$,3/2$^-$
3398.5#@ *6*	62 *19*	(4788.4)	1/2,3/2$^-$	1389.8	1/2$^-$,3/2$^-$
3415.5#@ *6*	<60	(4810.4)	1/2,3/2$^-$	1394.8	1/2$^-$,3/2$^-$
3420.5#@ *6*	<30	(4810.4)	1/2,3/2$^-$	1389.8	1/2$^-$,3/2$^-$
3437.7 *5*	62 *19*	(4788.4)	1/2,3/2$^-$	1350.6	1/2$^-$,3/2$^-$
3449.8 *4*	106 *22*	(4788.4)	1/2,3/2$^-$	1338.5	1/2$^-$,3/2$^-$
3458.1#@ *6*	47 *14*	(4788.4)	1/2,3/2$^-$	1330.2?	1/2,3/2
3459.7@ *5*	<30	(4810.4)	1/2,3/2$^-$	1350.6	1/2$^-$,3/2$^-$
3471.8@ *4*	<20	(4810.4)	1/2,3/2$^-$	1338.5	1/2$^-$,3/2$^-$
3475.5 *3*	89 *18*	(4788.4)	1/2,3/2$^-$	1312.8	1/2$^-$,3/2$^-$
3480.1#@ *6*	<20	(4810.4)	1/2,3/2$^-$	1330.2?	1/2,3/2
3483.5#@ *6*	35 *14*	(4788.4)	1/2,3/2$^-$	1304.8	1/2$^+$,3/2$^+$
3494.9 *4*	90 *18*	(4788.4)	1/2,3/2$^-$	1293.4	1/2$^-$,3/2$^-$
3497.5 *3*	20 *8*	(4810.4)	1/2,3/2$^-$	1312.8	1/2$^-$,3/2$^-$
3505.5#@ *6*	<20	(4810.4)	1/2,3/2$^-$	1304.8	1/2$^+$,3/2$^+$
3505.6 *6*	84 *34*	(4788.4)	1/2,3/2$^-$	1282.7	1/2$^-$,3/2$^-$
3516.9@ *4*	<20	(4810.4)	1/2,3/2$^-$	1293.4	1/2$^-$,3/2$^-$
3526.0 *4*	52 *11*	(4788.4)	1/2,3/2$^-$	1262.3	1/2$^-$,3/2$^-$
3527.6@ *6*	<60	(4810.4)	1/2,3/2$^-$	1282.7	1/2$^-$,3/2$^-$
3531.2 *4*	82 *17*	(4788.4)	1/2,3/2$^-$	1257.1	1/2$^-$,3/2$^-$
3548.0 *4*	12 *6*	(4810.4)	1/2,3/2$^-$	1262.3	1/2$^-$,3/2$^-$
3553.2 *4*	26 *13*	(4810.4)	1/2,3/2$^-$	1257.1	1/2$^-$,3/2$^-$
3562.6 *7*	25 *8*	(4788.4)	1/2,3/2$^-$	1225.7	1/2$^+$,3/2$^+$
3575.8#@ *12*	17 *7*	(4788.4)	1/2,3/2$^-$	1212.5	1/2,3/2,5/2$^+$
3584.6 *7*	23 *9*	(4810.4)	1/2,3/2$^-$	1225.7	1/2$^+$,3/2$^+$
3597.8#@ *12*	<20	(4810.4)	1/2,3/2$^-$	1212.5	1/2,3/2,5/2$^+$
3603.8 *5*	44 *13*	(4788.4)	1/2,3/2$^-$	1184.5	1/2$^{(+)}$,3/2$^{(+)}$
3616.5 *8*	83 *25*	(4788.4)	1/2,3/2$^-$	1171.8	1/2$^-$,3/2$^-$
3625.8@ *5*	<20	(4810.4)	1/2,3/2$^-$	1184.5	1/2$^{(+)}$,3/2$^{(+)}$
3637.3 *4*	75 *15*	(4788.4)	1/2,3/2$^-$	1151.0	1/2$^-$,3/2$^-$
3638.5 *8*	24 *10*	(4810.4)	1/2,3/2$^-$	1171.8	1/2$^-$,3/2$^-$
3654.9#@ *6*	27 *11*	(4788.4)	1/2,3/2$^-$	1133.4	1/2$^+$,3/2$^+$
3659.3 *4*	19 *8*	(4810.4)	1/2,3/2$^-$	1151.0	1/2$^-$,3/2$^-$
3673.0#@ *7*	28 *11*	(4788.4)	1/2,3/2$^-$	1115.3	1/2$^+$,3/2$^+$
3676.9#@ *6*	<20	(4810.4)	1/2,3/2$^-$	1133.4	1/2$^+$,3/2$^+$
3686.5#@ *8*	47 *14*	(4788.4)	1/2,3/2$^-$	1101.8	1/2$^+$,3/2$^+$

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^{232}Th(n,γ) E=2,24 keV 1979Je01 (continued)

$\gamma(^{233}Th)$ (continued)

E_γ †	I_γ ‡	E_i(level)	J_i^π	E_f	J_f^π
3695.0#@ 7	<20	(4810.4)	1/2,3/2$^-$	1115.3	1/2$^+$,3/2$^+$
3700.9#@ 5	42 13	(4788.4)	1/2,3/2$^-$	1087.4	1/2$^{(+)}$,3/2$^{(+)}$
3708.5#@ 8	31 12	(4810.4)	1/2,3/2$^-$	1101.8	1/2$^+$,3/2$^+$
3714.0 3	72 11	(4788.4)	1/2,3/2$^-$	1074.3	1/2$^-$,3/2$^-$
3722.9#@ 5	11 6	(4810.4)	1/2,3/2$^-$	1087.4	1/2$^{(+)}$,3/2$^{(+)}$
3727.0 6	25 8	(4788.4)	1/2,3/2$^-$	1061.3	1/2$^+$,3/2$^+$
3736.0@ 3	<15	(4810.4)	1/2,3/2$^-$	1074.3	1/2$^-$,3/2$^-$
3737.9 3	87 13	(4788.4)	1/2,3/2$^-$	1050.4	1/2$^-$,3/2$^-$
3748.4#@ 4	56 12	(4788.4)	1/2,3/2$^-$	1039.9?	1/2,3/2
3749.0@ 6	<15	(4810.4)	1/2,3/2$^-$	1061.3	1/2$^+$,3/2$^+$
3757.1 3	89 14	(4788.4)	1/2,3/2$^-$	1031.2	1/2$^-$,3/2$^-$
3759.9 3	23 12	(4810.4)	1/2,3/2$^-$	1050.4	1/2$^-$,3/2$^-$
3770.4#@ 4	15	(4810.4)	1/2,3/2$^-$	1039.9?	1/2,3/2
3774.9 3	75 13	(4788.4)	1/2,3/2$^-$	1013.4	1/2$^-$,3/2$^-$
3779.1 3	20 8	(4810.4)	1/2,3/2$^-$	1031.2	1/2$^-$,3/2$^-$
3796.9@ 3	<20	(4810.4)	1/2,3/2$^-$	1013.4	1/2$^-$,3/2$^-$
3803.4#@ 6	39 12	(4788.4)	1/2,3/2$^-$	984.9	1/2$^+$,3/2$^+$
3819.6#@ 6	39 12	(4788.4)	1/2,3/2$^-$	968.7	1/2$^+$,3/2$^+$
3825.4#@ 6	<15	(4810.4)	1/2,3/2$^-$	984.9	1/2$^+$,3/2$^+$
3830.7#@ 13	21 9	(4788.4)	1/2,3/2$^-$	957.6	(5/2)$^+$
3840.9 4	68 10	(4788.4)	1/2,3/2$^-$	947.4	1/2,3/2
3841.6#@ 6	<15	(4810.4)	1/2,3/2$^-$	968.7	1/2$^+$,3/2$^+$
3852.7#@ 13	12 5	(4810.4)	1/2,3/2$^-$	957.6	(5/2)$^+$
3862.9 4	33 10	(4810.4)	1/2,3/2$^-$	947.4	1/2,3/2
3863.6 4	137 14	(4788.4)	1/2,3/2$^-$	924.7	1/2$^-$,3/2$^-$
3870.0 12	81 12	(4788.4)	1/2,3/2$^-$	918.3	1/2$^-$,3/2$^-$
3883.7 5	44 13	(4788.4)	1/2,3/2$^-$	904.6	1/2$^+$,3/2$^+$
3885.6 4	58 12	(4810.4)	1/2,3/2$^-$	924.7	1/2$^-$,3/2$^-$
3892.0 12	17 9	(4810.4)	1/2,3/2$^-$	918.3	1/2$^-$,3/2$^-$
3896.7 5	43 13	(4788.4)	1/2,3/2$^-$	891.6	1/2$^+$,3/2$^+$
3903.2#@ 10	17 7	(4788.4)	1/2,3/2$^-$	885.1	5/2$^+$
3905.7 5	30 9	(4810.4)	1/2,3/2$^-$	904.6	1/2$^+$,3/2$^+$
3915.2#@ 10	28 11	(4788.4)	1/2,3/2$^-$	873.1	(5/2)$^+$
3918.7 5	31 9	(4810.4)	1/2,3/2$^-$	891.6	1/2$^+$,3/2$^+$
3925.2#@ 10	<15	(4810.4)	1/2,3/2$^-$	885.1	5/2$^+$
3926.8 5	42 13	(4788.4)	1/2,3/2$^-$	861.6	1/2$^+$,3/2$^+$
3936.4#@ 6	28 9	(4788.4)	1/2,3/2$^-$	851.9?	(5/2)$^+$
3937.2#@ 10	<15	(4810.4)	1/2,3/2$^-$	873.1	(5/2)$^+$
3947.7 2	109 8	(4788.4)	1/2,3/2$^-$	840.9	1/2$^-$,3/2$^-$
3948.8 5	22 7	(4810.4)	1/2,3/2$^-$	861.6	1/2$^+$,3/2$^+$
3958.4#@ 6	14 6	(4810.4)	1/2,3/2$^-$	851.9?	(5/2)$^+$
3969.7 2	36 11	(4810.4)	1/2,3/2$^-$	840.9	1/2$^-$,3/2$^-$
3973.7 3	56 11	(4788.4)	1/2,3/2$^-$	814.6	1/2$^+$,3/2$^+$
3995.7 3	29 9	(4810.4)	1/2,3/2$^-$	814.6	1/2$^+$,3/2$^+$
4006.4#@ 7	39 12	(4788.4)	1/2,3/2$^-$	781.9	1/2$^+$,3/2$^+$
4020.5 5	38 12	(4788.4)	1/2,3/2$^-$	767.8	1/2$^+$,3/2$^+$
4028.4#@ 7	21 7	(4810.4)	1/2,3/2$^-$	781.9	1/2$^+$,3/2$^+$
4042.5 5	31 9	(4810.4)	1/2,3/2$^-$	767.8	1/2$^+$,3/2$^+$
4046.7 3	103 16	(4788.4)	1/2,3/2$^-$	741.5	1/2$^-$,3/2$^-$
4066.3 4	50 10	(4788.4)	1/2,3/2$^-$	722.0	1/2$^+$,3/2$^+$

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^{232}Th(n,γ) E=2,24 keV 1979Je01 (continued)

$\gamma(^{233}Th)$ (continued)

E_γ [†]	I_γ [‡]	E_i(level)	J_i^π	E_f	J_f^π
4068.7 *3*	27 *5*	(4810.4)	1/2,3/2$^-$	741.5	1/2$^-$,3/2$^-$
4074.9 *3*	64 *10*	(4788.4)	1/2,3/2$^-$	713.4	1/2$^+$,3/2$^+$
4088.3 *4*	33 *5*	(4810.4)	1/2,3/2$^-$	722.0	1/2$^+$,3/2$^+$
4096.9 *3*	53 *8*	(4810.4)	1/2,3/2$^-$	713.4	1/2$^+$,3/2$^+$
4106.5 *2*	164 *12*	(4788.4)	1/2,3/2$^-$	681.8	1/2$^-$,3/2$^-$
4128.5 *2*	59 *9*	(4810.4)	1/2,3/2$^-$	681.8	1/2$^-$,3/2$^-$
4159.4[@] *7*	<15	(4788.4)	1/2,3/2$^-$	628.9	5/2$^+$
4176.2 *4*	44 *13*	(4788.4)	1/2,3/2$^-$	612.1	1/2$^+$,3/2$^+$
4181.4 *7*	22 *7*	(4810.4)	1/2,3/2$^-$	628.9	5/2$^+$
4198.2 *4*	37 *7*	(4810.4)	1/2,3/2$^-$	612.1	1/2$^+$,3/2$^+$
4202.3 *2*	227 *16*	(4788.4)	1/2,3/2$^-$	586.0	1/2$^-$,3/2$^-$
4215.8 *4*	127 *13*	(4788.4)	1/2,3/2$^-$	572.6	1/2$^-$,3/2$^-$
4224.3 *2*	33 *10*	(4810.4)	1/2,3/2$^-$	586.0	1/2$^-$,3/2$^-$
4227.2 *5*	50 *10*	(4810.4)	1/2,3/2$^-$	583.1	1/2,3/2
4237.8 *4*	42 *6*	(4810.4)	1/2,3/2$^-$	572.6	1/2$^-$,3/2$^-$
4248.7 *4*	114 *17*	(4788.4)	1/2,3/2$^-$	539.6	1/2$^-$,3/2$^-$
4270.7 *4*	34 *7*	(4810.4)	1/2,3/2$^-$	539.6	1/2$^-$,3/2$^-$
4416.1[@] *4*	<30	(4788.4)	1/2,3/2$^-$	372.2	5/2$^+$
4438.1 *4*	34 *7*	(4810.4)	1/2,3/2$^-$	372.2	5/2$^+$
4452.2 *3*	55 *9*	(4788.4)	1/2,3/2$^-$	336.0	1/2$^+$,3/2$^+$
4474.2 *3*	48 *7*	(4810.4)	1/2,3/2$^-$	336.0	1/2$^+$,3/2$^+$
4527.3[@] *4*	<20	(4788.4)	1/2,3/2$^-$	261.0	5/2$^+$
4549.3 *4*	30 *6*	(4810.4)	1/2,3/2$^-$	261.0	5/2$^+$
4734.5 *8*	25 *10*	(4788.4)	1/2,3/2$^-$	53.9	5/2$^+$
4756.5 *8*	49 *5*	(4810.4)	1/2,3/2$^-$	53.9	5/2$^+$
4771.4 *3*	83 *13*	(4788.4)	1/2,3/2$^-$	16.9	1/2$^+$,3/2$^+$
4782.3[@] *3*	<20	(4788.4)	1/2,3/2$^-$	6.0	5/2$^+$
4788.3 *4*	86 *6*	(4788.4)	1/2,3/2$^-$	0.0	1/2$^+$,3/2$^+$
4793.4 *3*	100 *10*	(4810.4)	1/2,3/2$^-$	16.9	1/2$^+$,3/2$^+$
4804.3 *3*	56 *8*	(4810.4)	1/2,3/2$^-$	6.0	5/2$^+$
4810.3 *4*	110 *11*	(4810.4)	1/2,3/2$^-$	0.0	1/2$^+$,3/2$^+$

[†] Eγ data from 2- and 24-keV average resonance capture are deduced evaluators from level energies given by 1979Je01.
[‡] Relative photon intensity measured by 1979Je01 in 2- and 24-keV neutron capture.
[#] Tentative assignment, the line could be a full-energy peak or a double-escape peak.
[@] Placement of transition in the level scheme is uncertain.

^{232}Th(n,γ) E=2,24 keV 1979Je01

Level Scheme

Intensities: Relative I_γ

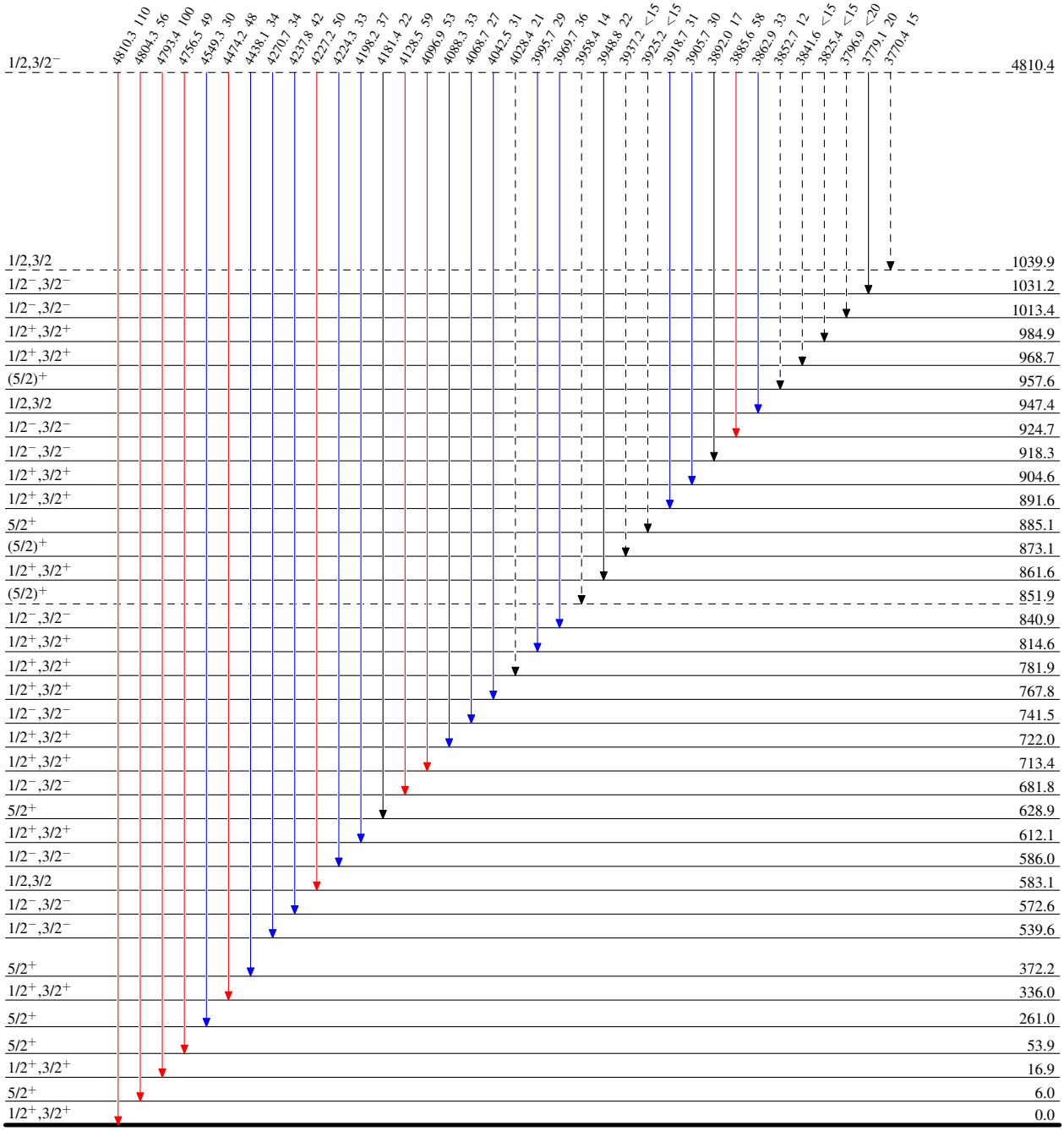
Legend

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

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

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

γ Decay (Uncertain)



$^{233}_{90}Th_{143}$

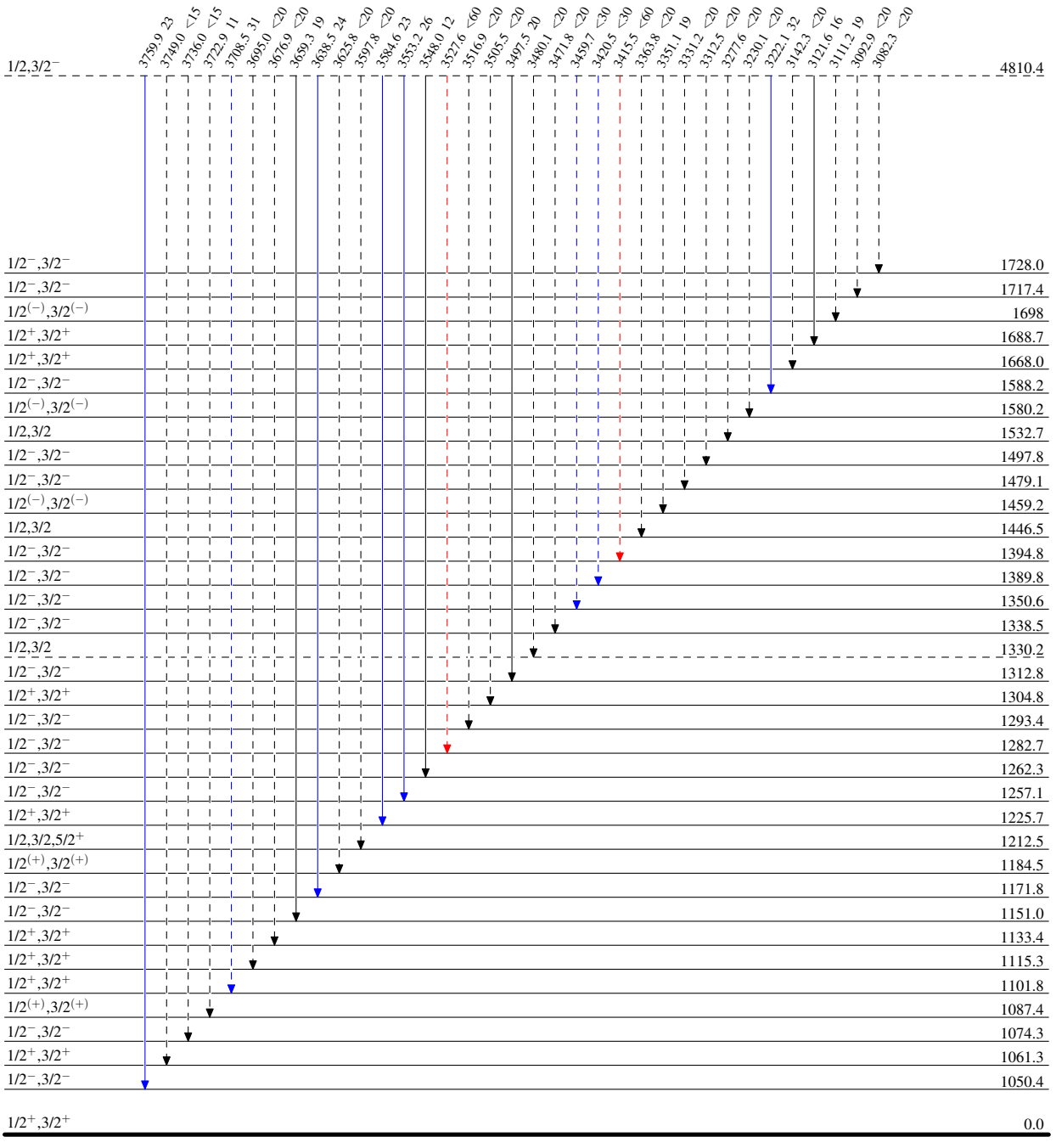
^{232}Th(n,γ) E=2,24 keV 1979Je01

Level Scheme (continued)

Intensities: Relative I_γ

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
γ Decay (Uncertain)



$^{233}_{90}Th_{143}$

^{232}Th(n,γ) E=2,24 keV 1979Je01

Level Scheme (continued)

Intensities: Relative I_γ

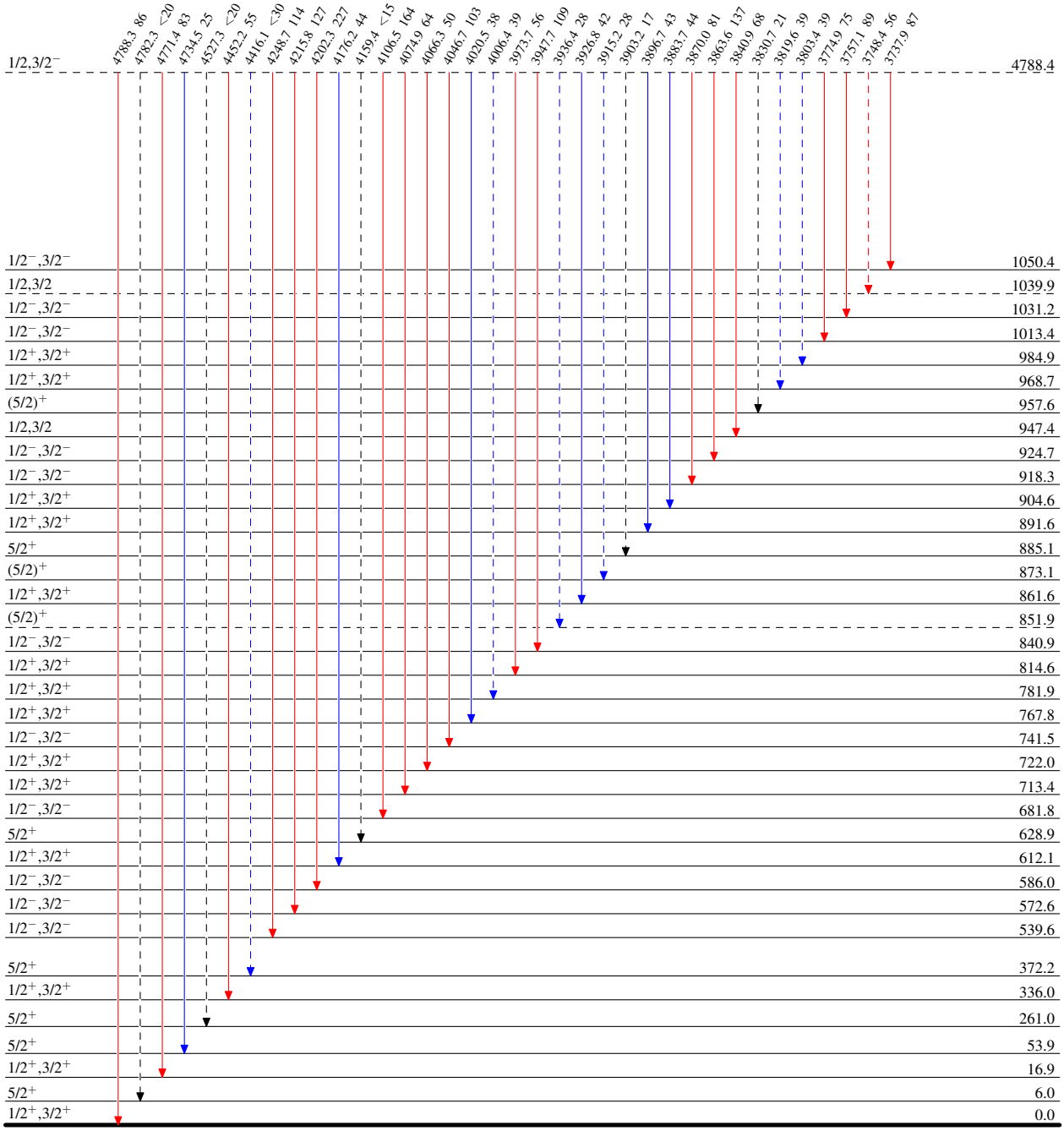
Legend

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

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

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

γ Decay (Uncertain)



$^{233}_{90}Th_{143}$

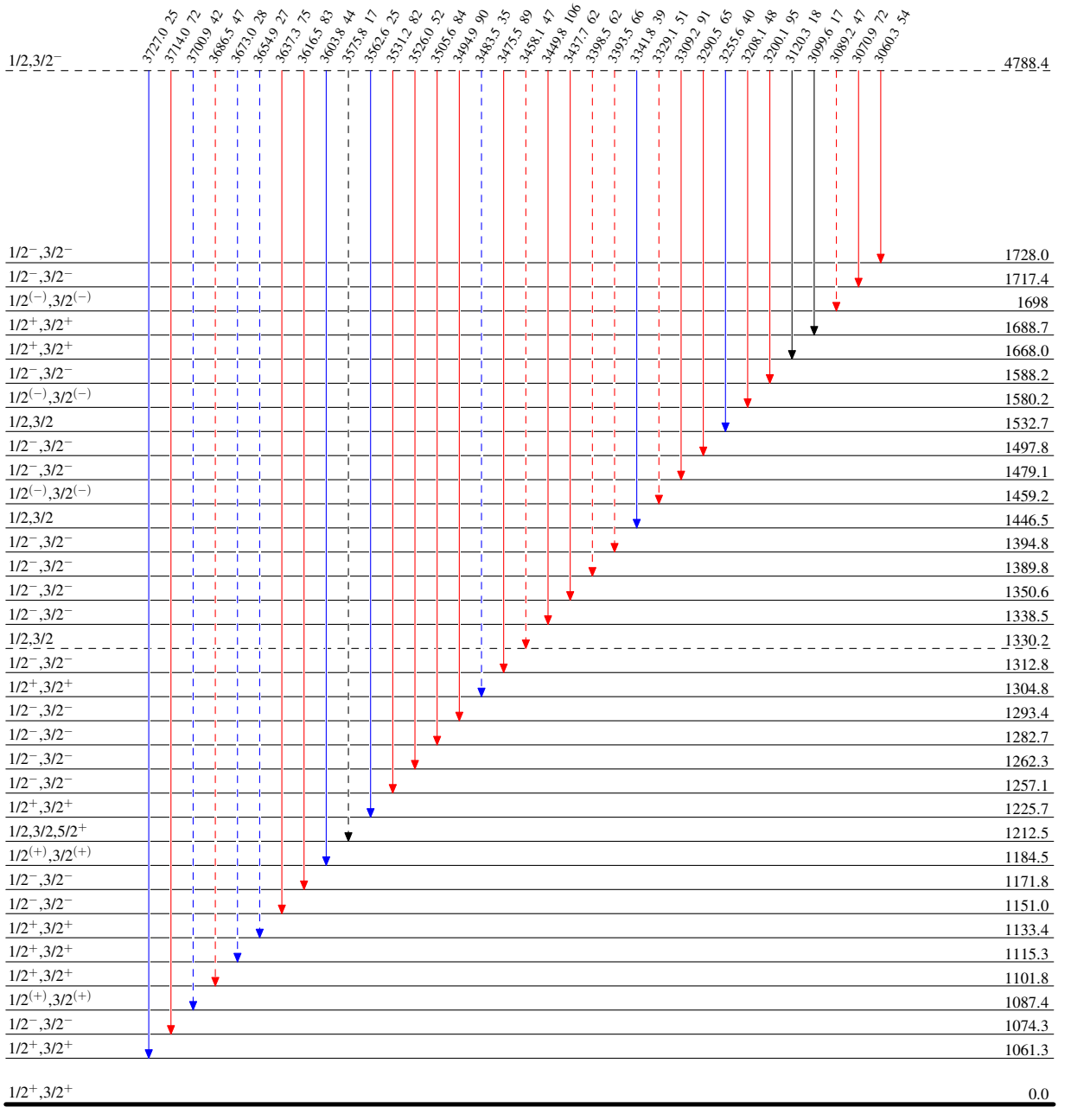
^{232}Th(n,γ) E=2,24 keV 1979Je01

Level Scheme (continued)

Intensities: Relative I_γ

Legend

$I_\gamma < 2\% \times I_\gamma^{max}$
$I_\gamma < 10\% \times I_\gamma^{max}$
$I_\gamma > 10\% \times I_\gamma^{max}$
γ Decay (Uncertain)



$^{233}_{90}Th_{143}$