Adopted Levels, Gammas

History

Type	Author	Citation	Literature Cutoff Date
Full Evaluation	Jean Blachot	ENSDF	1-Jul-2008

Q(β^-)=−1.314×10^4 *14*; S(n)=1.332×10^4 *7*; S(p)=2417 *7*; Q(α)=3420 *8* 2012Wa38
Note: Current evaluation has used the following Q record −13070.0 SY13252.0 SY2357.0 SY3445 4 2003Au03.
ΔQ(β^-)=374, ΔS(n)=316, ΔS(p)=316 (2003Au03).

^{108}Te Levels

Cross Reference (XREF) Flags

A ^{112}Xe α decay
B ^{54}Fe(^{58}Ni,2n2pγ)

E(level)	J$^\pi$[†]	T$_{1/2}$	XREF	Comments
0.0[‡]	0$^+$	2.1 s *1*	AB	%β^+p=2.4 *10* (1985Ti02); %ε+%β^+=51 *4*; %α=49 *4* (1994Pa11) T$_{1/2}$: from 1979Sc22 (3288α decay curve). Others: 2.0 s 3 (1995Sc28) 2.0 s *2* (1973Bo15), 3 s *1* (1977Ki11), 2.1 s *2* (1978Ro19). %α=68 *12* from Iα(^{108}Te)/(Iα(^{112}Xe) (1978Ro19).
625.20[‡] *20*	2$^+$		B	
1289.0[‡] *3*	4$^+$		B	
2047.9[‡] *4*	6$^+$		B	
2443.4[#] *4*	5$^{(-)}$		B	
2945.0[‡] *4*	8$^+$		B	
2997.0[#] *4*	7$^{(-)}$		B	
3644.4 *5*			B	
3661.0[#] *4*	9$^{(-)}$		B	
3886.2[‡] *4*	10$^+$		B	
4491.1[#] *4*	11$^{(-)}$		B	
4629.1 *5*			B	
4909.1[‡] *5*	12$^+$		B	
5294.9[#] *5*	13$^{(-)}$		B	
5980.3[‡] *5*	14$^+$		B	
6090.3[#] *5*	15$^{(-)}$		B	
7128.6[#] *5*	17$^{(-)}$		B	
7951.3 *6*			B	
8067.3[#] *6*	19$^{(-)}$		B	
8929.5 *6*			B	
9327.2[#] *6*	(21$^-$)		B	
9791.4 *7*			B	
10545.8[#] *7*			B	

[†] From γ multipolarities, band assignments and syst.
[‡] Band(A): g.s. band.
[#] Band(B): Band based on 5$^{(-)}$.

Adopted Levels, Gammas (continued)

γ(^{108}Te)

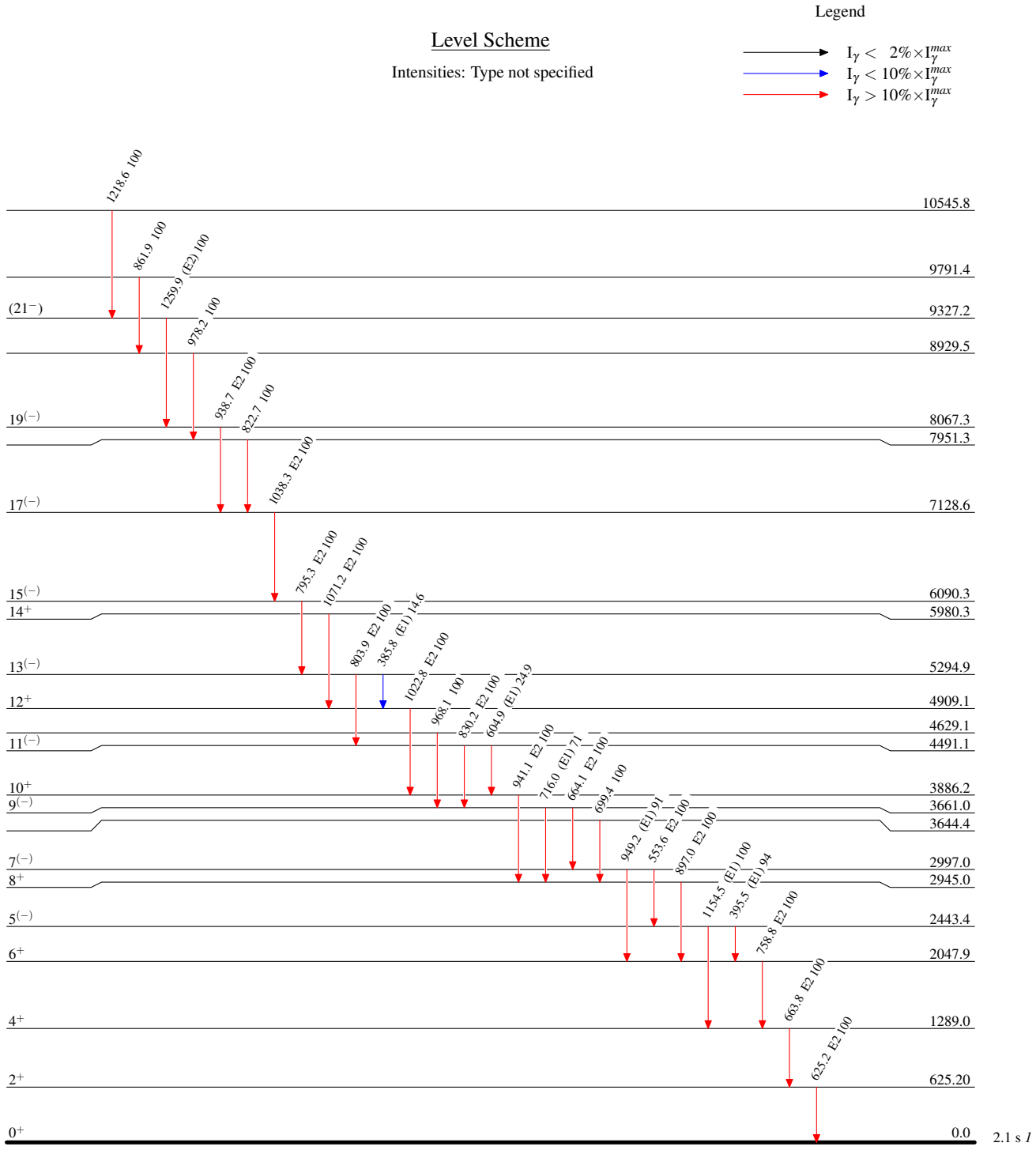
E_i(level)	J_i^π	E_γ	I_γ	E_f	J_f^π	Mult.[†]
625.20	2^+	625.2 *2*	100	0.0	0^+	E2
1289.0	4^+	663.8 *2*	100	625.20	2^+	E2
2047.9	6^+	758.8 *2*	100	1289.0	4^+	E2
2443.4	$5^{(-)}$	395.5 *2*	94 *13*	2047.9	6^+	(E1)
		1154.5 *2*	100 *20*	1289.0	4^+	(E1)
2945.0	8^+	897.0 *2*	100	2047.9	6^+	E2
2997.0	$7^{(-)}$	553.6 *2*	100 *9*	2443.4	$5^{(-)}$	E2
		949.2 *2*	91 *8*	2047.9	6^+	(E1)
3644.4		699.4 *2*	100	2945.0	8^+	
3661.0	$9^{(-)}$	664.1 *2*	100 *5*	2997.0	$7^{(-)}$	E2
		716.0 *2*	71 *4*	2945.0	8^+	(E1)
3886.2	10^+	941.1 *2*	100	2945.0	8^+	E2
4491.1	$11^{(-)}$	604.9 *2*	24.9 *19*	3886.2	10^+	(E1)
		830.2 *2*	100 *5*	3661.0	$9^{(-)}$	E2
4629.1		968.1 *2*	100	3661.0	$9^{(-)}$	
4909.1	12^+	1022.8 *2*	100	3886.2	10^+	E2
5294.9	$13^{(-)}$	385.8 *2*	14.6 *15*	4909.1	12^+	(E1)
		803.9 *2*	100 *4*	4491.1	$11^{(-)}$	E2
5980.3	14^+	1071.2 *2*	100	4909.1	12^+	E2
6090.3	$15^{(-)}$	795.3 *2*	100	5294.9	$13^{(-)}$	E2
7128.6	$17^{(-)}$	1038.3 *2*	100	6090.3	$15^{(-)}$	E2
7951.3		822.7 *2*	100	7128.6	$17^{(-)}$	
8067.3	$19^{(-)}$	938.7 *2*	100	7128.6	$17^{(-)}$	E2
8929.5		978.2 *2*	100	7951.3		
9327.2	(21^-)	1259.9 *2*	100	8067.3	$19^{(-)}$	(E2)
9791.4		861.9 *2*	100	8929.5		
10545.8		1218.6 *2*	100	9327.2	(21^-)	

[†] From A_2 and A_4 in ^{54}Fe(^{58}Ni,2n2pγ).

Adopted Levels, Gammas

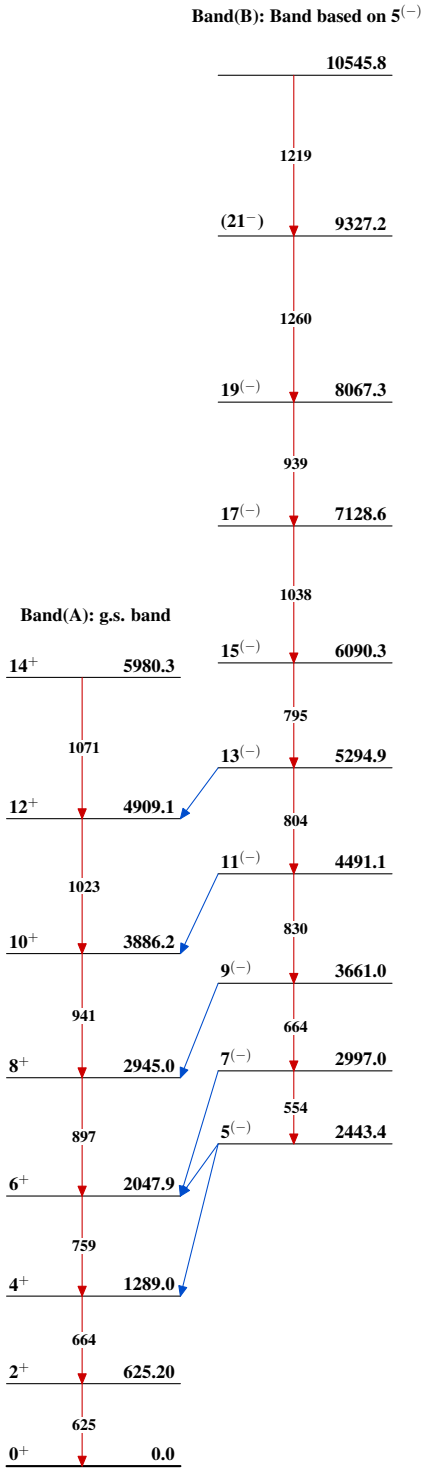
Level Scheme

Intensities: Type not specified



$^{108}_{52}Te_{56}$

Adopted Levels, Gammas



$^{108}_{52}Te_{56}$