

$^{159}\text{Tb}(^{19}\text{F},4\text{n}\gamma), ^{165}\text{Ho}(^{14}\text{N},5\text{n}\gamma)$ 1987Ga14,1967Ne02

Type	Author	History	Citation	Literature Cutoff Date
Full Evaluation	E. Browne, Huo Junde		NDS 87, 15 (1999)	1-Nov-1998

Additional information 1.

1987Ga14: E(^{19}F)=85 MeV. Measured E γ , I γ and level half-lives (recoil distance technique). Detector: Ge.1967Ne02: E(^{19}F)=92 MeV. E(^{14}N)=93 MeV. Measured E γ , I γ , $\gamma(\theta)$. Detector:Ge(Li). ^{174}W Levels

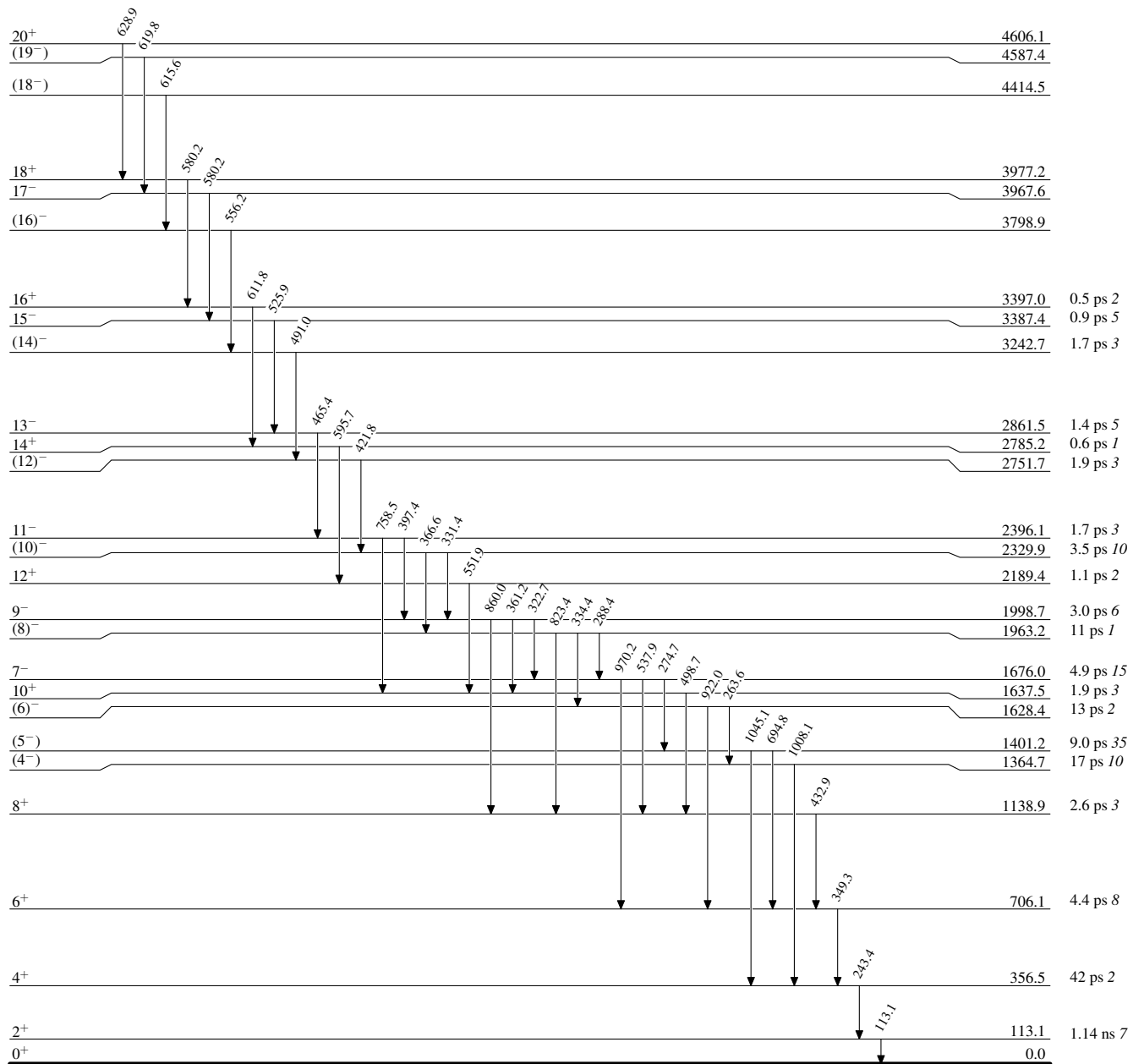
Additional information 2.

E(level)	J $^{\pi}$	T $_{1/2}$ [†]	E(level)	J $^{\pi}$	T $_{1/2}$ [†]	E(level)	J $^{\pi}$	T $_{1/2}$ [†]
0.0 [‡]	0 ⁺		1676.0 [#]	7 ⁻	4.9 ps 15	3242.7 [@]	(14) ⁻	1.7 ps 3
113.1 [‡]	2 ⁺	1.14 ns 7	1963.2 [@]	(8) ⁻	11 ps 1	3387.4 [#]	15 ⁻	0.9 ps 5
356.5 [‡]	4 ⁺	42 ps 2	1998.7 [#]	9 ⁻	3.0 ps 6	3397.0 [‡]	16 ⁺	0.5 ps 2
706.1 [‡]	6 ⁺	4.4 ps 8	2189.4 [‡]	12 ⁺	1.1 ps 2	3798.9 [@]	(16) ⁻	
1138.9 [‡]	8 ⁺	2.6 ps 3	2329.9 [@]	(10) ⁻	3.5 ps 10	3967.6 [#]	17 ⁻	
1364.7 [@]	(4 ⁻)	17 ps 10	2396.1 [#]	11 ⁻	1.7 ps 3	3977.2 [‡]	18 ⁺	
1401.2 [#]	(5 ⁻)	9.0 ps 35	2751.7 [@]	(12) ⁻	1.9 ps 3	4414.5 [@]	(18 ⁻)	
1628.4 [@]	(6) ⁻	13 ps 2	2785.2 [‡]	14 ⁺	0.6 ps 1	4587.4 [#]	(19 ⁻)	
1637.5 [‡]	10 ⁺	1.9 ps 3	2861.5 [#]	13 ⁻	1.4 ps 5	4606.1 [‡]	20 ⁺	

[†] From RDM (1987Ga14).[‡] Band(A): K $^{\pi}$ =0⁺ g.s. rotational band.[#] Band(B): K $^{\pi}$ =(5⁻) band.[@] Band(C): K $^{\pi}$ =(4⁻) band. $\gamma(^{174}\text{W})$

E $_{\gamma}$ [†]	E $_i$ (level)	J $^{\pi}_i$	E $_f$	J $^{\pi}_f$	E $_{\gamma}$ [†]	E $_i$ (level)	J $^{\pi}_i$	E $_f$	J $^{\pi}_f$
113.1	113.1	2 ⁺	0.0	0 ⁺	537.9	1676.0	7 ⁻	1138.9	8 ⁺
243.4	356.5	4 ⁺	113.1	2 ⁺	551.9	2189.4	12 ⁺	1637.5	10 ⁺
263.6	1628.4	(6) ⁻	1364.7	(4 ⁻)	556.2	3798.9	(16) ⁻	3242.7	(14) ⁻
274.7	1676.0	7 ⁻	1401.2	(5 ⁻)	580.2	3967.6	17 ⁻	3387.4	15 ⁻
288.4	1963.2	(8) ⁻	1676.0	7 ⁻	580.2	3977.2	18 ⁺	3397.0	16 ⁺
322.7	1998.7	9 ⁻	1676.0	7 ⁻	595.7	2785.2	14 ⁺	2189.4	12 ⁺
331.4	2329.9	(10) ⁻	1998.7	9 ⁻	611.8	3397.0	16 ⁺	2785.2	14 ⁺
334.4	1963.2	(8) ⁻	1628.4	(6) ⁻	615.6	4414.5	(18 ⁻)	3798.9	(16) ⁻
349.3	706.1	6 ⁺	356.5	4 ⁺	619.8	4587.4	(19 ⁻)	3967.6	17 ⁻
361.2	1998.7	9 ⁻	1637.5	10 ⁺	628.9	4606.1	20 ⁺	3977.2	18 ⁺
366.6	2329.9	(10) ⁻	1963.2	(8) ⁻	694.8	1401.2	(5 ⁻)	706.1	6 ⁺
397.4	2396.1	11 ⁻	1998.7	9 ⁻	758.5	2396.1	11 ⁻	1637.5	10 ⁺
421.8	2751.7	(12) ⁻	2329.9	(10) ⁻	823.4	1963.2	(8) ⁻	1138.9	8 ⁺
432.9	1138.9	8 ⁺	706.1	6 ⁺	860.0	1998.7	9 ⁻	1138.9	8 ⁺
465.4	2861.5	13 ⁻	2396.1	11 ⁻	922.0	1628.4	(6) ⁻	706.1	6 ⁺
491.0	3242.7	(14) ⁻	2751.7	(12) ⁻	970.2	1676.0	7 ⁻	706.1	6 ⁺
498.7	1637.5	10 ⁺	1138.9	8 ⁺	1008.1	1364.7	(4 ⁻)	356.5	4 ⁺
525.9	3387.4	15 ⁻	2861.5	13 ⁻	1045.1	1401.2	(5 ⁻)	356.5	4 ⁺

[†] From $^{159}\text{Tb}(^{19}\text{F},4\text{n}\gamma)$ (1987Ga14).

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