

(HI,xn γ) 2005CaZU

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	J. K. Tuli	ENSDF	23-Dec-2009

$^{90}\text{Zr}(^{92}\text{Mo,P})$, Gammashere; measured, α , γ , $\gamma\gamma$.

 ^{181}Tl Levels

E(level)	J $^{\pi}$	T $_{1/2}$	E(level)	J $^{\pi}$	E(level)	J $^{\pi}$
0.0	1/2 ⁺	≈ 1 ms	1644 [#]	(15/2 ⁻)	3655 [#]	(27/2 ⁻)
258	3/2 ⁺		1909 [‡]	(21/2 ⁻)	x	(11/2 ⁻)
823	(5/2 ⁺)		1923 [@]	(13/2 ⁺)	237+x ^{&}	(13/2 ⁺)
834	9/2 ⁻		2026 [†]	(19/2 ⁻)	392+x ^{&}	(17/2 ⁺)
1030 [@]	(1/2 ⁺)		2056 [#]	(19/2 ⁻)	645+x ^{&}	(21/2 ⁺)
1221 [‡]	(13/2 ⁻)		2360 [‡]	(25/2 ⁻)	990+x ^{&}	(25/2 ⁺)
1250 [@]	(5/2 ⁺)		2366 [@]	(17/2 ⁺)	1284+x	(23/2 ⁺)
1263 [†]	(11/2 ⁻)		2501 [†]	(23/2 ⁻)	1419+x ^{&}	(29/2 ⁺)
1294 [#]	(11/2 ⁻)		2534 [#]	(23/2 ⁻)	1674+x	(27/2 ⁺)
1529 [‡]	(17/2 ⁻)		2861 [‡]	(29/2 ⁻)	1924+x ^{&}	(33/2 ⁺)
1547 [@]	(9/2 ⁺)		3026 [†]	(27/2 ⁻)	2501+x ^{&}	(37/2 ⁺)
1618 [†]	(15/2 ⁻)		3072 [#]	(27/2 ⁻)		

[†] Band(A): Cascade-1.

[‡] Band(B): Cascade-2.

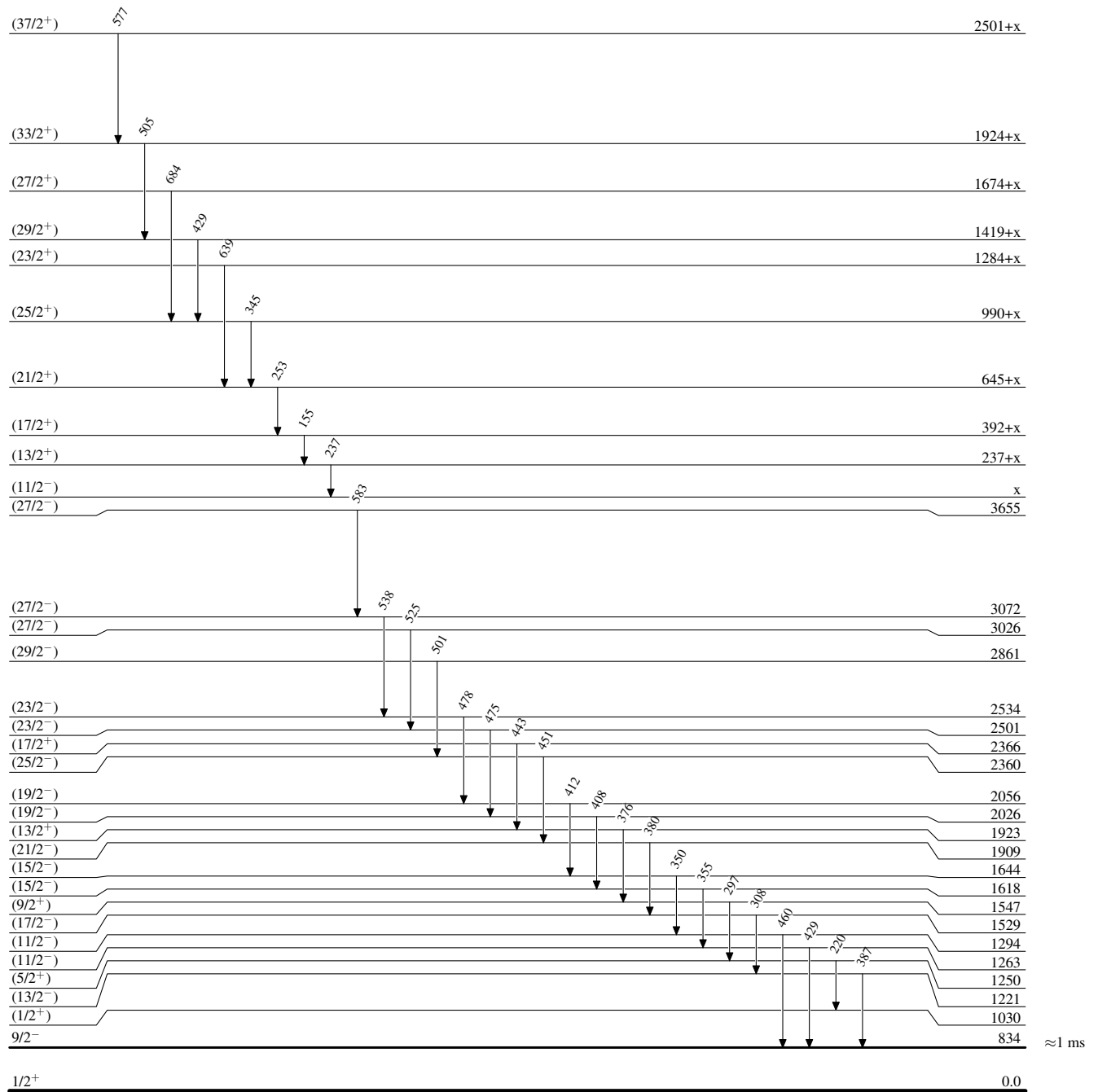
[#] Band(C): Cascade-3.

[@] Band(D): Cascade-4.

[&] Band(E): Cascade-5.

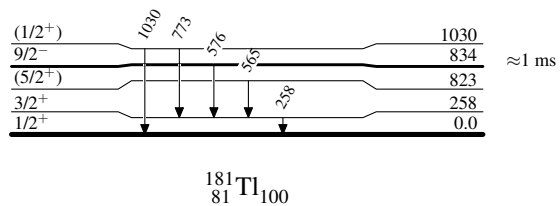
 $\gamma(^{181}\text{Tl})$

E $_{\gamma}$	E $_i$ (level)	J $^{\pi}_i$	E $_f$	J $^{\pi}_f$	E $_{\gamma}$	E $_i$ (level)	J $^{\pi}_i$	E $_f$	J $^{\pi}_f$
155	392+x	(17/2 ⁺)	237+x	(13/2 ⁺)	443	2366	(17/2 ⁺)	1923	(13/2 ⁺)
220	1250	(5/2 ⁺)	1030	(1/2 ⁺)	451	2360	(25/2 ⁻)	1909	(21/2 ⁻)
237	237+x	(13/2 ⁺)	x	(11/2 ⁻)	460	1294	(11/2 ⁻)	834	9/2 ⁻
253	645+x	(21/2 ⁺)	392+x	(17/2 ⁺)	475	2501	(23/2 ⁻)	2026	(19/2 ⁻)
258	258	3/2 ⁺	0.0	1/2 ⁺	478	2534	(23/2 ⁻)	2056	(19/2 ⁻)
297	1547	(9/2 ⁺)	1250	(5/2 ⁺)	501	2861	(29/2 ⁻)	2360	(25/2 ⁻)
308	1529	(17/2 ⁻)	1221	(13/2 ⁻)	505	1924+x	(33/2 ⁺)	1419+x	(29/2 ⁺)
345	990+x	(25/2 ⁺)	645+x	(21/2 ⁺)	525	3026	(27/2 ⁻)	2501	(23/2 ⁻)
350	1644	(15/2 ⁻)	1294	(11/2 ⁻)	538	3072	(27/2 ⁻)	2534	(23/2 ⁻)
355	1618	(15/2 ⁻)	1263	(11/2 ⁻)	565	823	(5/2 ⁺)	258	3/2 ⁺
376	1923	(13/2 ⁺)	1547	(9/2 ⁺)	576	834	9/2 ⁻	258	3/2 ⁺
380	1909	(21/2 ⁻)	1529	(17/2 ⁻)	577	2501+x	(37/2 ⁺)	1924+x	(33/2 ⁺)
387	1221	(13/2 ⁻)	834	9/2 ⁻	583	3655	(27/2 ⁻)	3072	(27/2 ⁻)
408	2026	(19/2 ⁻)	1618	(15/2 ⁻)	639	1284+x	(23/2 ⁺)	645+x	(21/2 ⁺)
412	2056	(19/2 ⁻)	1644	(15/2 ⁻)	684	1674+x	(27/2 ⁺)	990+x	(25/2 ⁺)
429	1419+x	(29/2 ⁺)	990+x	(25/2 ⁺)	773	1030	(1/2 ⁺)	258	3/2 ⁺
429	1263	(11/2 ⁻)	834	9/2 ⁻	1030	1030	(1/2 ⁺)	0.0	1/2 ⁺

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Level Scheme (continued)



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