

²⁵²Cf SF decay 2013WaZZ

Type	Author	History Citation	Literature Cutoff Date
Full Evaluation	M. J. Martin	NDS 114, 1497 (2013)	31-Aug-2013

Parent: ²⁵²Cf: E=0; J^π=0⁺; T_{1/2}=2.645 y 8; %SF decay=3.092 8

The data presented here replace those reported in 2011Li41. The two bands that were assigned to ¹⁵²Pr in that paper are now assigned to ¹⁵¹Pr.

¹⁵²Pr Levels

E(level) [†]	Comments
0+x [‡]	Additional information 1.
60.00+x [#] 3	
136.00+x [‡] 3	
228.0+x [#] 3	
336.4+x [‡] 4	
460.0+x [#] 5	
600.9+x [‡] 5	
755.3+x [#] 6	
928.2+x [‡] 6	
1108.7+x [#] 6	
1314.3+x [‡] 7	
1514.1+x [#] 7	
1754.4+x [‡] 7	
1966.5+x [#] 8	
2243.1+x [‡] 8	
2462.7+x [#] 8	
2777.1+x [‡] 8	
3002.2+x [#] 9	

[†] From a least-squares fit to the E_γ data.

[‡] Band(A): Band A.

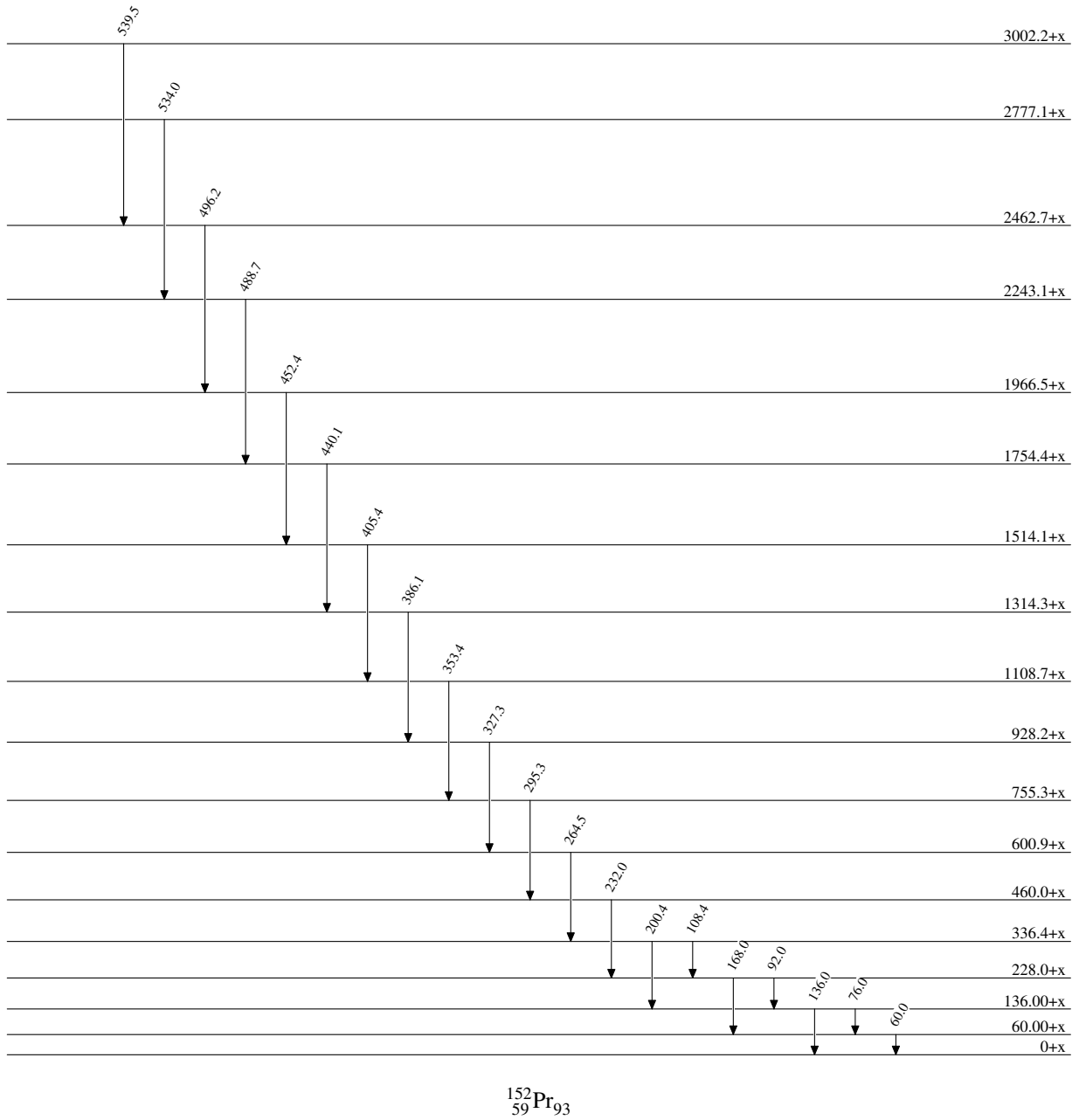
[#] Band(B): Band B.

γ(¹⁵²Pr)

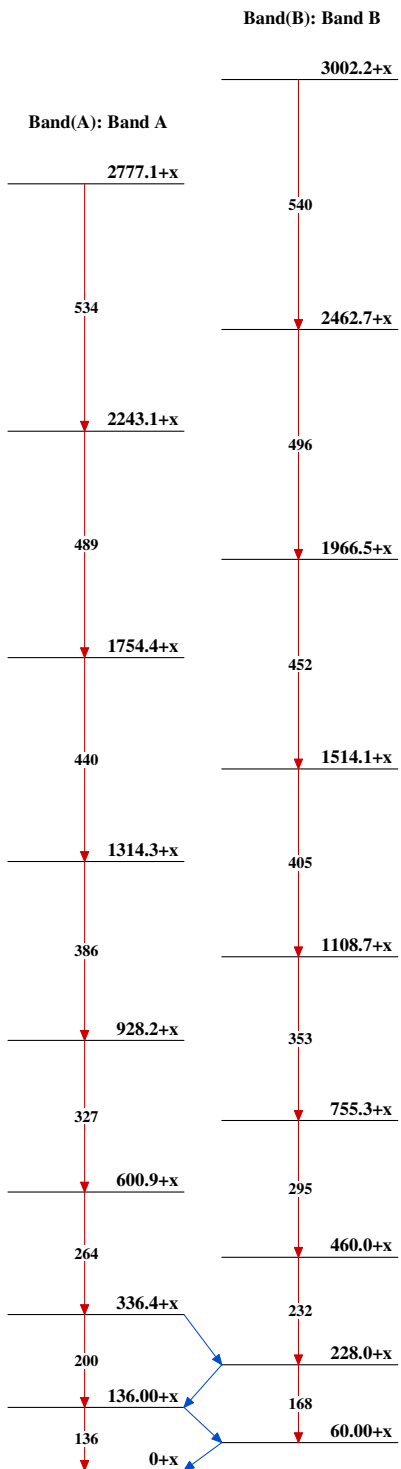
E _γ	E _i (level)	E _f	E _γ	E _i (level)	E _f	E _γ	E _i (level)	E _f
60.0 3	60.00+x	0+x	232.0 3	460.0+x	228.0+x	440.1 3	1754.4+x	1314.3+x
76.0 3	136.00+x	60.00+x	264.5 3	600.9+x	336.4+x	452.4 3	1966.5+x	1514.1+x
92.0 3	228.0+x	136.00+x	295.3 3	755.3+x	460.0+x	488.7 3	2243.1+x	1754.4+x
108.4 3	336.4+x	228.0+x	327.3 3	928.2+x	600.9+x	496.2 3	2462.7+x	1966.5+x
136.0 3	136.00+x	0+x	353.4 3	1108.7+x	755.3+x	534.0 3	2777.1+x	2243.1+x
168.0 3	228.0+x	60.00+x	386.1 3	1314.3+x	928.2+x	539.5 3	3002.2+x	2462.7+x
200.4 3	336.4+x	136.00+x	405.4 3	1514.1+x	1108.7+x			

$^{252}\text{Cf SF decay}$ 2013WaZZ

Level Scheme



^{252}Cf SF decay 2013WaZZ



$^{152}_{59}\text{Pr}_{93}$