

^{190}Tl $Z = 81$ $N = 109$ adopted link ENSDF link

Based on ENSDF from Oct 2022, and mass evaluation from 2020

BE = 1494.547 (0.007) MeV

Qbeta+ = 7.004 (0.017) MeV

	Energy T	J+	J-	J-other	T1/2

S-alpha=	-4.924 (0.022)				
190TL	1		0.000	2-	
					1 2.6 M 3
190TL	2 0.083	7+			2 3.6 M 3
190TL	3			0.151	1+,2+,3+
					3 34 NS GT
190TL	4			0.151	(1-)
					4
190TL	5			0.158	(0:3)(-)
					5
190TL	6			0.195	(6+,7+)
					6 0.25 NS LT
190TL	7			0.211	(1-,2-,3-)
					7
190TL	8			0.245	(8-)
					8

S-p = 2.029 (0.032)-----

S-n = 7.822 (0.011)-----

S-2p = 6.573 (0.008)-----

S-2n = 18.172 (0.031)-----

S-alpha= -4.924 (0.022)-----

S+p = -3.214 (0.010)

S+n = -9.988 (0.010)

S+2p = -3.746 (0.031)

S+2n = -17.649 (0.033)

S+alpha = 5.918 (0.009)

gap p = -1.185 (0.034)

gap n = -2.167 (0.015)

gap 2p = 2.827 (0.032)

gap 2n = 0.524 (0.045)

gap alpha = 0.995 (0.024)