

^{180}Ta $Z = 73$ $N = 107$ adopted link ENSDF link

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

BE = 1444.660 (0.002) MeV
 Qbeta- = 0.703 (0.003) MeV
 Qbeta+ = 0.846 (0.003) MeV

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

S-alpha=	-2.024	(0.002)	-----		
180TA 1	0.000	1+			1 8.154 H 6
180TA 2	0.040	2+			2
180TA 3			0.077	9-	3 7.1E15 Y GT
180TA 4			0.108	0-	4 19.2 NS 7
180TA 5	0.111	3+			5
180TA 6			0.130	1-	6
180TA 7			0.171	2-	7
180TA 8	0.178	8+			8 70.0 NS 14
180TA 9	0.185	4+			9
180TA 10			0.234	3-	10

180TA 11				0.258	11
180TA 12			0.280	10-	12
180TA 13	0.311	5+			13
180TA 14			0.318	4-	14
180TA 15	0.320	1+			15
180TA 16	0.357	7+			16 42 NS 3
180TA 17	0.371	2+			17
180TA 18	0.374	9+			18
180TA 19	0.416	6+			19
180TA 20			0.420	5-	20

180TA 21			0.423	1-	21
180TA 22				0.426	22
180TA 23	0.448	3+			23
180TA 24			0.464	7-	24 31.2 NS 19
180TA 25			0.478	2-	25
180TA 26			0.505	11-	26
180TA 27				0.508	27
180TA 28	0.516	8+			28 1 NS LT
180TA 29	0.520	4+			29 37.4 NS 20

S-p = 5.760 (0.003)-----
 S-n = 6.648 (0.003)-----
 S-2p = 13.174 (0.003)-----
 S-2n = 14.430 (0.002)-----
 S-alpha= -2.024 (0.002)-----

S+p = -6.589 (0.003)
S+n = -7.577 (0.003)
S+2p = -11.090 (0.102)
S+2n = -13.640 (0.003)
S+alpha = 2.289 (0.005)

gap p = -0.830 (0.004)
gap n = -0.929 (0.004)
gap 2p = 2.083 (0.102)
gap 2n = 0.790 (0.003)
gap alpha = 0.265 (0.005)