

^{222}Th $Z = 90$ $N = 132$ [link to full NNDC output](#)

Based on ENSDF from Dec 2018, and mass evaluation from 2016

BE = 1704.218 (0.012) MeV

Qbeta+ = 0.582 (0.013) MeV

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

S-alpha=	-8.127	(0.017)	-----		
222TH 1	0.000	0+			1 2.24 MS 3
222TH 2	0.183	2+			2 240 PS 20
222TH 3	0.440	4+			3 46 PS 6
222TH 4			0.467	3-	4
222TH 5			0.651	5-	5
222TH 6	0.750	6+			6 45 PS LE
222TH 7			0.924	7-	7
222TH 8	1.094	8+			8
222TH 9			1.255	9-	9
222TH 10	1.461	10+			10

222TH 11			1.623	11-	11
222TH 12	1.851	12+			12
222TH 13			2.016	13-	13
222TH 14	2.260	14+			14
222TH 15			2.432	15-	15
222TH 16	2.688	16+			16
222TH 17			2.873	17-	17
222TH 18	3.134	18+			18
222TH 19			3.341	19-	19
222TH 20	3.596	20+			20

222TH 21			3.836	21-	21
222TH 22	4.078	22+			22
222TH 23			4.350	23-	23
222TH 24	4.578	24+			24

S-p	= 4.609	(0.052)	-----		
222TH 25				4.883 (25-)	25
222TH 26				5.098 (26+)	26

S-p	= 4.609	(0.052)	-----		
S-n	= 7.809	(0.015)	-----		
S-2p	= 7.645	(0.015)	-----		
S-2n	= 13.609	(0.025)	-----		

S-alpha=	-8.127	(0.017)	-----		

S+p	= -2.172	(0.072)	-----		
S+n	= -5.889	(0.015)	-----		

S+2p = -6.059 (0.026)
S+2n = -13.352 (0.016)
S+alpha = 7.701 (0.018)

gap p = 2.438 (0.089)
gap n = 1.920 (0.021)
gap 2p = 1.586 (0.030)
gap 2n = 0.257 (0.030)
gap alpha = -0.426 (0.024)