

^{232}Th $Z = 90$ $N = 142$ [link to full NNDC output](#)

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

BE = 1766.688 (0.001) MeV

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

S-alpha=	-4.082	(0.002)	-----		
232TH 1	0.000	0+			1 1.40E10 Y 1
232TH 2	0.049	2+			2 345 PS 15
232TH 3	0.162	4+			3 164 PS 13
232TH 4	0.333	6+			4 62 PS 4
232TH 5	0.557	8+			5 24 PS 1
232TH 6			0.714	1-	6
232TH 7	0.731	0+			7
232TH 8	0.774	2+			8 6 PS 2
232TH 9			0.774	3-	9
232TH 10	0.785	2+			10 2.3 PS 3

232TH 11	0.827	10+			11 10.3 PS 6
232TH 12				0.830 (3+)	12
232TH 13	0.873	4+			13
232TH 14			0.884	5-	14
232TH 15	0.890	4+			15
232TH 16				0.960 (5+)	16
232TH 17	1.023	6+			17
232TH 18			1.043	7-	18
232TH 19	1.051	6+			19
232TH 20				1.054 (2+)	20

232TH 21				1.072 (2+)	21
232TH 22				1.078 (1-)	22
232TH 23				1.079 (0+)	23
232TH 24				1.094 (2)+	24
232TH 25			1.106	3-	25
232TH 26	1.122	2+			26
232TH 27	1.137	12+			27 5.5 PS 4
232TH 28				1.143 (4-)	28
232TH 29				1.146 (7+)	29
232TH 30				1.148 (4+)	30

232TH 31			1.183	3-	31
232TH 32				1.209 (5-)	32
232TH 33				1.218	33
232TH 34				1.222 (8+)	34
232TH 35			1.250	9-	35
232TH 36				1.259 (8+)	36
232TH 37				1.293 (5-)	37

232TH 38						1.303				38
232TH 39		1.322	2+							39
232TH 40		1.327	2+							40

232TH 41						1.352				41
232TH 42						1.370	(9+)			42
232TH 43		1.387	2+							43 0.4 PS 1
232TH 44		1.414	4+							44 2.2 PS 5
232TH 45						1.419				45
232TH 46						1.450				46
232TH 47		1.466	4+							47
232TH 48						1.469	(10+)			48
232TH 49		1.477	2+							49
232TH 50						1.480				50

232TH 51		1.482	14+							51 3.1 PS 2
232TH 52						1.485	(5+)			52
232TH 53						1.489	(1,2+)			53
232TH 54						1.490	(5+)			54
232TH 55					1.499	11-				55
232TH 56						1.512	(10+)			56
232TH 57						1.520				57
232TH 58		1.554	2+							58 110 FS 10
232TH 59						1.561	(1,2+)			59
232TH 60						1.573	(1,2+)			60

232TH 61						1.574	(6+)			61
232TH 62						1.579	(2+)			62
232TH 63						1.609				63
232TH 64						1.618				64
232TH 65						1.640	(11+)			65
232TH 66						1.648				66
232TH 67						1.691				67
232TH 68						1.728				68
232TH 69						1.738	(1,2+)			69
232TH 70						1.755	(12+)			70

232TH 71						1.783	(8)+			71
232TH 72					1.785	13-				72
232TH 73						1.791				73
232TH 74						1.801	(12+)			74
232TH 75		1.859	16+							75 2.3 PS 2
232TH 76		2.043	1+							76 6.1 FS 4
232TH 77						2.080	(14+)			77
232TH 78					2.102	15-				78
232TH 79						2.117	(14+)			79
232TH 80		2.248	1+							80 13 FS 2

232TH 81		2.262	18+							81 1.4 PS 2
232TH 82		2.274	1+							82 25 FS 6

