

^{234}Th $Z = 90$ $N = 144$ adopted link ENSDF link

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

BE = 1777.664 (0.003) MeV

Qbeta- = 0.274 (0.005) MeV

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

S-alpha=	-3.672	(0.011)	-----		
234TH 1	0.000	0+			1 24.10 D 3
234TH 2	0.050	2+			2 0.37 NS 3
234TH 3	0.163	4+			3
234TH 4	0.336	6+			4
234TH 5	0.565	8+			5
234TH 6				0.688 (1-)	6
234TH 7				0.810 (0+)	7
234TH 8	0.842	10+			8
234TH 9				0.995 (7-)	9
234TH 10				1.150 (0+)	10

234TH 11				1.165 (12+)	11
234TH 12				1.195 (9-)	12
234TH 13				1.442 (11-)	13
234TH 14				1.470 (0+)	14
234TH 15				1.527 (14+)	15
234TH 16				1.731 (13-)	16
234TH 17				1.896 (1,2+)	17
234TH 18				1.913 (1,2+)	18
234TH 19				1.923 (16+)	19
234TH 20				2.059 (15-)	20

234TH 21				2.351 (18+)	21
234TH 22				2.423 (17-)	22
234TH 23				2.805 (20+)	23
234TH 24				2.817 (19-)	24
234TH 25				3.238 (21-)	25
234TH 26				3.281 (22+)	26
234TH 27				3.684 (23-)	27
234TH 28				3.775 (24+)	28

S-p = 7.984 (0.013)-----

S-n = 6.190 (0.003)-----

S-2p = 14.462 (0.010)-----

S-2n = 10.976 (0.003)-----

S-alpha= -3.672 (0.011)-----

S+p = -5.613 (0.014)

S+n = -4.667 (0.013)
S+2p = -12.746 (0.003)
S+2n = -10.500 (0.014)
S+alpha = 4.270 (0.003)

gap p = 2.371 (0.019)
gap n = 1.523 (0.014)
gap 2p = 1.716 (0.010)
gap 2n = 0.476 (0.015)
gap alpha = 0.598 (0.011)