

^{216}Th $Z = 90$ $N = 126$ adopted link ENSDF link

Based on ensdf_240402 (Apr 2024), and mass evaluation from 2020

BE = 1662.695 (0.011) MeV

Qbeta+ = 2.149 (0.014) MeV

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

S-alpha=	-8.073	(0.015)	-----					

216TH	1	0.000	0+				1	26.0 MS 2
216TH	2	1.478	2+				2	
216TH	3			1.688	3-		3	
216TH	4	1.814	4+				4	
216TH	5	2.014	6+				5	
216TH	6	2.040	8+				6	134 US 4
216TH	7	2.131	(8+)				7	
216TH	8			2.647	11-		8	0.58 US 3

S-p	=	3.021	(0.017)	-----				
216TH	9	3.530	(12+)				9	
216TH	10	3.681	(14+)				10	0.74 US 7

S-p = 3.021 (0.017) -----
 S-n = 8.694 (0.013) -----
 S-2p = 4.372 (0.012) -----
 S-2n = 16.539 (0.015) -----
 S-alpha= -8.073 (0.015) -----

S+p = -0.533 (0.017)
 S+n = -6.164 (0.015)
 S+2p = -2.982 (0.018)
 S+2n = -14.075 (0.015)
 S+alpha = 10.190 (0.011)

gap p = 2.488 (0.024)
 gap n = 2.530 (0.020)
 gap 2p = 1.390 (0.021)
 gap 2n = 2.464 (0.022)
 gap alpha = 2.118 (0.019)