

$^{213}\text{Th}$        $Z = 90$        $N = 123$       adopted link      ENSDF link

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

BE = 1636.660 ( 0.009) MeV

Qbeta+ = 5.979 ( 0.015) MeV

	Energy T	J+	J-	J-other	T1/2
-----					
S-alpha=	-7.837 ( 0.011)				
213TH 1			0.000	5/2-	1 146 MS +22-19
213TH 2				0.799 (9/2-)	2
213TH 3				1.180 (13/2+)	3 8.3 US 8

S-p = 2.469 ( 0.024)-----  
 S-n = 8.062 ( 0.014)-----  
 S-2p = 3.290 ( 0.010)-----  
 S-2n = 17.899 ( 0.087)-----  
 S-alpha= -7.837 ( 0.011)-----

S+p = 0.051 ( 0.082)  
 S+n = -9.496 ( 0.014)  
 S+2p = -1.809 ( 0.105)  
 S+2n = -17.341 ( 0.011)  
 S+alpha = 8.377 ( 0.009)

gap p = 2.520 ( 0.085)  
 gap n = -1.434 ( 0.020)  
 gap 2p = 1.481 ( 0.105)  
 gap 2n = 0.558 ( 0.087)  
 gap alpha = 0.540 ( 0.014)