

$^{78}\text{Zn}$        $Z = 30$        $N = 48$       adopted link      ENSDF link

Based on ensdf\_240402 (Apr 2024), and mass evaluation from 2020

BE = 663.576 ( 0.002) MeV

Qbeta- = 6.221 ( 0.002) MeV

	Energy T	J+	J-	J-other	T1/2
78ZN 1	0.000	0+			1 1.47 S 15
78ZN 2	0.730	2+			2 18 PS 4
78ZN 3	1.621	(4+)			3
78ZN 4	2.529	(6+)			4
78ZN 5	2.674	(8+)			5 319 NS 9
78ZN 6				3.106 (4+:8+)	6

S-p = 15.909 ( 0.002) -----  
 S-n = 6.765 ( 0.003) -----  
 S-2p = 29.888 ( 0.304) -----  
 S-2n = 11.323 ( 0.002) -----  
 S-alpha= 11.238 ( 0.222) -----

S+p = -12.354 ( 0.002)  
 S+n = -4.020 ( 0.003)  
 S+2p = -26.630 ( 0.003)  
 S+2n = -10.308 ( 0.003)  
 S+alpha = -10.357 ( 0.003)

gap p = 3.555 ( 0.003)  
 gap n = 2.745 ( 0.004)  
 gap 2p = 3.258 ( 0.304)  
 gap 2n = 1.015 ( 0.004)  
 gap alpha = 0.881 ( 0.222)