

$^{33}\text{Na}$        $Z = 11$        $N = 22$       adopted link      ENSDF link

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

BE = 233.968 ( 0.450) MeV

Qbeta- = 18.817 ( 0.450) MeV

	Energy T	J+	J-	J-other	T1/2
33NA	1			0.000 (3/2+)	1 8.0 MS 4
33NA	2			0.429 (5/2+)	2
33NA	3			1.117 (7/2+)	3
33NA	4			0.000 (3/2+)	4

S-p = 20.496 ( 0.682)-----  
 S-n = 2.931 ( 0.451)-----  
 S-2p = 47.627 ( 0.693)-----  
 S-2n = 4.609 ( 0.450)-----  
 S-alpha= 18.795 ( 0.692)-----

S+p = -22.746 ( 0.450)  
 S+n = -0.171 ( 0.749)  
 S+2p = -38.582 ( 0.450)  
 S+2n = -2.107 ( 0.803)  
 S+alpha = -16.395 ( 0.485)

gap p = -2.250 ( 0.817)  
 gap n = 2.760 ( 0.875)  
 gap 2p = 9.045 ( 0.826)  
 gap 2n = 2.501 ( 0.920)  
 gap alpha = 2.400 ( 0.845)