

$^{42}\text{S}$        $Z = 16$        $N = 26$       adopted link      ENSDF link

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

BE = 344.116 ( 0.003) MeV

Qbeta- = 7.194 ( 0.060) MeV

	Energy T	J+	J-	J-other	T1/2
42S	1   0.000	0+			1 1.016 S 15
42S	2   0.903	2+			2 11.9 PS 20
42S	3   2.725	(4+)			3
42S	4   2.779	(2+)			4
42S	5			4.245	5

S-p = 19.947 ( 0.120) -----  
 S-n = 6.701 ( 0.005) -----  
 S-2p = 37.883 ( 0.122) -----  
 S-2n = 10.943 ( 0.005) -----  
 S-alpha = 15.892 ( 0.105) -----

S+p = -13.811 ( 0.062)  
 S+n = -2.629 ( 0.006)  
 S+2p = -29.613 ( 0.003)  
 S+2n = -7.709 ( 0.006)  
 S+alpha = -14.558 ( 0.004)

gap p = 6.136 ( 0.135)  
 gap n = 4.071 ( 0.008)  
 gap 2p = 8.269 ( 0.122)  
 gap 2n = 3.233 ( 0.008)  
 gap alpha = 1.334 ( 0.105)