

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

Based on ENSDF from Oct 2022, 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)