

^{42}Si $Z = 14$ $N = 28$ adopted link ENSDF link

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

BE = 311.220 (-0.294) MeV

Qbeta- = 15.731 (0.309) MeV

	Energy T	J+	J-	J-other	T1/2
42SI 1	0.000	0+			1 12.5 MS 35
42SI 2				0.742 (2+)	2
42SI 3				2.173 (4+)	3
42SI 4				2.774	4

S-p = 25.040 (-0.505)-----
 S-n = 4.458 (-0.411)-----
 S-2p = 47.300 (-0.597)-----
 S-2n = 4.987 (-0.318)-----
 S-alpha= 19.660 (-0.575)-----

S+p = -19.063 (-0.421)
 S+n = -0.573 (-0.486)
 S+2p = -40.605 (-0.294)
 S+2n = -3.644 (-0.566)
 S+alpha = -18.594 (-0.508)

gap p = 5.977 (0.657)
 gap n = 3.885 (0.636)
 gap 2p = 6.695 (0.666)
 gap 2n = 1.343 (0.650)
 gap alpha = 1.066 (0.767)