

^{40}S $Z = 16$ $N = 24$ [link to full NNDC output](#)

Based on ENSDF from Dec 2018, and mass evaluation from 2016

BE = 333.173 (0.004) MeV

Qbeta- = 4.720 (0.032) MeV

	Energy T	J+	J-	J-other	T1/2
40S 1	0.000	0+			1 8.8 S 22
40S 2	0.904	2+			2 14.1 PS +17-14
40S 3				1.917 (4+)	3
40S 4				2.255 (4+)	4
40S 5				3.236	5
40S 6				3.489 (1-)	6
40S 7				3.828 (6+)	7
40S 8				3.947	8
40S 9				4.138 (1-,2-,3-)	9
40S 10				4.725	10
40S 11				5.009 (1-,2-,3-)	11

S-p = 17.352 (0.113)-----
 S-n = 7.747 (0.050)-----
 S-2p = 33.246 (0.105)-----
 S-2n = 12.119 (0.008)-----
 S-alpha= 12.827 (0.072)-----

S+p = -11.758 (0.069)
 S+n = -4.242 (0.006)
 S+2p = -26.163 (0.007)
 S+2n = -10.943 (0.005)
 S+alpha = -12.260 (0.004)

gap p = 5.594 (0.132)
 gap n = 3.504 (0.050)
 gap 2p = 7.083 (0.105)
 gap 2n = 1.177 (0.010)
 gap alpha = 0.566 (0.072)