

^{39}P $Z = 15$ $N = 24$ [link to full NNDC output](#)

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

BE = 315.821 (0.113) MeV

Qbeta- = 10.388 (0.123) MeV

	Energy T	J+	J-	J-other	T1/2
39P	1			0.000 (1/2+)	1 0.28 S 4
39P	2			0.355 (3/2+)	2
39P	3			0.973 (5/2+)	3 12.6 PS AP
39P	4			2.167	4

S-p = 15.893 (0.154)-----
 S-n = 6.224 (0.134)-----
 S-2p = 37.162 (0.213)-----
 S-2n = 9.921 (0.119)-----
 S-alpha= 14.976 (0.113)-----

S+p = -17.352 (0.113)
 S+n = -3.411 (0.190)
 S+2p = -29.111 (0.132)
 S+2n = -8.348 (0.165)
 S+alpha = -13.810 (0.129)

gap p = -1.459 (0.191)
 gap n = 2.813 (0.233)
 gap 2p = 8.052 (0.250)
 gap 2n = 1.573 (0.203)
 gap alpha = 1.166 (0.171)