

$^{39}\text{P}$        $Z = 15$        $N = 24$       adopted link      ENSDF link

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

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
39P	5			0.000 (1/2+)	5

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      =     -3.436 ( 0.140)

S+2p     =     -29.110 ( 0.132)

S+2n     =     -8.348 ( 0.165)

S+alpha   =     -13.810 ( 0.129)

gap p     =     -1.459 ( 0.191)

gap n     =      2.789 ( 0.194)

gap 2p    =      8.052 ( 0.250)

gap 2n    =      1.574 ( 0.203)

gap alpha =      1.166 ( 0.171)