

$^{37}\text{P}$        $Z = 15$        $N = 22$       [link to full NNDC output](#)

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

BE = 305.900 ( 0.038) MeV

Qbeta- = 7.900 ( 0.038) MeV

	Energy T	J+	J-	J-other	T1/2
37P	1			0.000 (1/2+)	1 2.31 S 13
37P	2			0.861 (3/2+)	2
37P	3			1.300 (5/2+)	3
37P	4			2.481 (9/2+)	4
37P	5			2.570 (7/2+)	5
37P	6			3.350 (13/2+)	6
37P	7			3.560 (11/2+)	7
37P	8			4.395	8
37P	9			6.052	9
S-n	= 6.816 ( 0.040)				
37P	10			7.897	10

S-p = 13.849 ( 0.081)-----  
 S-n = 6.816 ( 0.040)-----  
 S-2p = 33.350 ( 0.039)-----  
 S-2n = 10.281 ( 0.038)-----  
 S-alpha= 12.924 ( 0.039)-----

S+p = -15.154 ( 0.039)  
 S+n = -3.697 ( 0.082)  
 S+2p = -25.382 ( 0.038)  
 S+2n = -9.921 ( 0.119)  
 S+alpha = -10.736 ( 0.079)

gap p = -1.305 ( 0.090)  
 gap n = 3.119 ( 0.091)  
 gap 2p = 7.968 ( 0.054)  
 gap 2n = 0.360 ( 0.125)  
 gap alpha = 2.187 ( 0.087)