

$^{42}\text{P}$        $Z = 15$        $N = 27$       adopted link      ENSDF link

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

BE      =      326.168 ( 0.095) MeV  
 Qbeta- =      18.730 ( 0.095) MeV

	Energy T	J+	J-	J-other	T1/2
-----	-----	-----	-----	-----	-----
42P	1			0.000	1 48.5 MS 15

S-p      =      19.406 ( 0.302)-----  
 S-n      =      2.000 ( 0.153)-----  
 S-2p     =      42.288 ( 0.296)-----  
 S-2n     =      6.912 ( 0.127)-----  
 S-alpha=    17.813 ( 0.179)-----

S+p      =     -20.576 ( 0.095)  
 S+n      =     -4.115 ( 0.316)  
 S+2p     =     -36.149 ( 0.128)  
 S+2n     =     -6.120 ( 0.407)  
 S+alpha   =     -17.252 ( 0.136)

gap p     =     -1.170 ( 0.317)  
 gap n     =     -2.115 ( 0.351)  
 gap 2p    =      6.140 ( 0.322)  
 gap 2n    =      0.792 ( 0.426)  
 gap alpha =      0.561 ( 0.225)