^{33}P $Z = 15$ $N = 18$ link to full NNDC output

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

BE = 280.956 (0.001) MeV
Qbeta- = 0.249 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2
33P 1	0.000	1/2+			1 25.35 D 11
33P 2	1.432	3/2+			2 0.43 PS 7
33P 3	1.848	5/2+			3 0.77 PS 11
33P 4	2.538	3/2+			4 35 FS 7
33P 5	3.275	3/2+			5 0.14 PS 3
33P 6	3.491	5/2+			6 58 FS 12
33P 7	3.628	7/2+			7 0.14 PS 3
33P 8			3.990		8
33P 9	4.048	5/2+			9 62 FS 21
33P 10	4.194	5/2+			10 104 FS 35
33P 11			4.226 7/2-		11 0.32 PS 7
33P 12			4.856	(3/2,5/2)	12 76 FS LT
33P 13	5.049	5/2+			13 62 FS LT
33P 14			5.191	(3/2+,5/2)	14 125 FS LT
33P 15			5.207		15
33P 16			5.221		16
33P 17			5.235		17
33P 18			5.411	(3/2,5/2,7/2+)	18 76 FS LT
33P 19			5.453 9/2-		19 24 PS 5
33P 20			5.498	(3/2-:9/2+)	20 62 FS LT
33P 21			5.549	(1/2+:9/2+)	21 330 FS 120
33P 22			5.558	3/2	22 56 FS LT
33P 23			5.638 11/2-		23 9.7 PS 14
33P 24	5.674	1/2+			24 49 FS LT
33P 25			5.731	3/2	25
33P 26			5.785	(1/2,3/2,5/2+)	26 35 FS LT
33P 27			5.816	(3/2+,5/2,7/2+)	27 75 FS 40
33P 28			5.931		28
33P 29			5.970	(1/2,3/2,5/2+)	29 56 FS LT
33P 30			6.115	(1/2+:9/2+)	30 0.14 PS LT
33P 31			6.124		31 55 FS 40
33P 32			6.182		32 60 FS LT
33P 33			6.327		33
33P 34	6.432	5/2+			34
33P 35			6.509		35
33P 36			6.559		36
33P 37	6.820	5/2+			37

```
 33P   38 |                 |                 |   6.938     15/2(-)          38
 33P   39 |                 |                 |   6.952                      39
 33P   40 |  7.146     5/2+ |                 |                              40
-----------                                                                  -----------------
 33P   41 |                 |                 |   7.310     (9/2,11/2,13/2+  41)
 33P   42 |                 |                 |   7.564                      42
 33P   43 |                 |                 |   7.967     (17/2+)          43
 33P   44 |                 |                 |   8.080     (9/2,11/2)       44
 33P   45 |                 |                 |   8.510                      45
 33P   46 |                 |                 |   8.850     (3/2+,5/2,7/2)   46
S-p    =   9.549 ( 0.001)-------------------------------------------------------------------------
 33P   47 |                 |                 |   9.940     (1/2:11/2)       47
S-n    =  10.104 ( 0.001)-------------------------------------------------------------------------
 33P   48 |                 |                 |  10.120     (1/2:13/2)       48


S-p    =   9.549 ( 0.001)-------------------------------------------------------------------------
S-n    =  10.104 ( 0.001)-------------------------------------------------------------------------
S-2p   =  25.965 ( 0.002)-------------------------------------------------------------------------
S-2n   =  18.039 ( 0.001)-------------------------------------------------------------------------
S-alpha=  10.554 ( 0.001)-------------------------------------------------------------------------

S+p       = -10.883 ( 0.001)
S+n       =  -6.283 ( 0.001)
S+2p      = -17.254 ( 0.001)
S+2n      = -14.663 ( 0.002)
S+alpha   =  -7.849 ( 0.001)

gap p     =  -1.335 ( 0.002)
gap n     =   3.821 ( 0.002)
gap 2p    =   8.710 ( 0.003)
gap 2n    =   3.376 ( 0.002)
gap alpha =   2.705 ( 0.002)
```