

^{34}P $Z = 15$ $N = 19$ [link to full NNDC output](#)

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

BE = 287.238 (0.001) MeV

Qbeta- = 5.383 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2
34P	1	0.000	1+		1 12.43 S 10
34P	2	0.429	2+		2 1.3 PS +6-3
34P	3	1.608	1+		3 0.52 PS +45-14
34P	4			2.229 2(-)	4 2 PS GT
34P	5			2.305 4(-)	5 2.0 NS 1
34P	6			2.321 3(-)	6 7 PS GT
34P	7			2.372	7
34P	8			2.628	8
34P	9			2.675 (1+,2-,3+)	9
34P	10			3.086	10
34P	11			3.201	11
34P	12			3.291	12
34P	13			3.352 5(-)	13 0.36 PS +12-8
34P	14			3.482	14
34P	15			3.546	15
34P	16			3.752 (3-,4-)	16 0.26 PS 6
34P	17			3.912 (3-,4-)	17 0.14 PS 7
34P	18			3.943	18
34P	19			3.951 (5-)	19 0.111 PS 35
34P	20			4.306 (1+,2-,3+)	20
34P	21			4.438	21
34P	22			4.447 (4-)	22 0.10 PS LT
34P	23			4.630 6(-)	23 0.30 PS 5
34P	24			4.723	24
34P	25			4.744 (1+,2-,3+,4-)	25
34P	26			5.013 (2-)	26 0.07 PS LT
34P	27			5.281 (3-)	27 0.07 PS LT
34P	28			5.394 (6-)	28 0.11 PS +8-5
34P	29			5.726 (3-,4,5,6-)	29
34P	30			6.181 (6-)	30 0.07 PS LT
34P	31			6.194	31
34P	32			6.237 7(+)	32 6.9 PS GT
S-n	=	6.283 (0.001)			
34P	33			6.357 (7-)	33 0.035 PS LT
34P	34			7.426	34 0.07 PS LT
34P	35			7.920	35 0.35 PS GT

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S-p    = 11.323 ( 0.001)-----  
S-n    =  6.283 ( 0.001)-----  
S-2p   = 28.027 ( 0.007)-----  
S-2n   = 16.386 ( 0.001)-----  
S-alpha= 11.109 ( 0.003)-----  
  
S+p    = -11.586 ( 0.001)  
S+n    =  -8.380 ( 0.002)  
S+2p   = -19.551 ( 0.001)  
S+2n   = -11.845 ( 0.013)  
S+alpha =  -7.674 ( 0.001)  
  
gap p   = -0.263 ( 0.001)  
gap n   = -2.098 ( 0.002)  
gap 2p  =  8.476 ( 0.007)  
gap 2n  =  4.541 ( 0.013)  
gap alpha =  3.434 ( 0.003)
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