

^{82}Se $Z = 34$ $N = 48$ [link to full NNDC output](#)

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

BE = 712.842 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2
82SE 1	0.000	0+			1 STABLE
82SE 2	0.655	2+			2 13.1 PS 2
82SE 3	1.410	0+			3 30 PS
82SE 4	1.732	2+			4 0.94 PS 11
82SE 5	1.735	4+			5 0.96 PS 15
82SE 6				2.550 (3,4+)	6
82SE 7				2.626 (0+)	7 0.04 PS 1
82SE 8			2.894 5-		8
82SE 9			3.009 3-		9 0.020 PS 5
82SE 10				3.103 (4+)	10
82SE 11				3.145 (6+)	11
82SE 12				3.239 (4+)	12 0.30 PS +12-8
82SE 13				3.378 (3-)	13 0.12 PS 4
82SE 14	3.446	0+			14
82SE 15				3.454 (5-)	15
82SE 16				3.519 (8+)	16 6.6 NS 4
82SE 17	3.592	2+			17 0.28 PS +12-8
82SE 18				3.631 (0+)	18
82SE 19	3.664	2+			19
82SE 20	3.689	4+			20
82SE 21	3.757	2+			21
82SE 22				3.798 (4+)	22
82SE 23	3.831	0+			23
82SE 24				3.865 (3-)	24
82SE 25	3.918	2+			25
82SE 26	4.036	2+			26 0.17 PS +10-5
82SE 27				4.094 (5-)	27
82SE 28	4.134	2+			28
82SE 29	4.391	2+			29 0.13 PS 3
82SE 30				4.466 (4+)	30
82SE 31				4.535 (4+)	31
82SE 32				4.566 (0+,1,2)	32
82SE 33				4.584 (4+)	33
82SE 34				4.809 (1-)	34
82SE 35				4.881 (4+)	35
82SE 36				4.969	36
82SE 37				5.029 (1-)	37
82SE 38				5.459	38

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S-p    = 12.350 ( 0.003)-----  
S-n    =  9.276 ( 0.001)-----  
S-2p   = 22.636 ( 0.002)-----  
S-2n   = 15.977 ( 0.001)-----  
S-alpha=  8.157 ( 0.004)-----  
  
S+p    = -8.709 ( 0.004)  
S+n    = -5.818 ( 0.003)  
S+2p   = -19.423 ( 0.000)  
S+2n   = -14.497 ( 0.002)  
S+alpha = -8.097 ( 0.000)  
  
gap p   =  3.641 ( 0.005)  
gap n   =  3.458 ( 0.003)  
gap 2p  =  3.213 ( 0.002)  
gap 2n  =  1.481 ( 0.002)  
gap alpha =  0.060 ( 0.004)
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