

^{82}Se $Z = 34$ $N = 48$ adopted link ENSDF link

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

BE = 712.842 (0.000) MeV

	Energy T	J+	J-	J-other	T1/2
82SE 1	0.000	0+			1 9.6E+19 Y 10
82SE 2	0.655	2+			2 12.8 PS 7
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 (4+)	6 1.7 PS 3
82SE 7				2.624 (0+)	7 0.04 PS 1
82SE 8			2.894 5-		8 131.7 PS GT
82SE 9			3.009 3-		9 0.020 PS 5
82SE 10				3.103 (4+)	10
82SE 11	3.145	6+			11 0.39 PS +13-9
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	3.518	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				3.668 (1,2+)	20
82SE 21				3.689 (4+)	21
82SE 22	3.757	2+			22
82SE 23				3.795 (7-)	23
82SE 24				3.798 (4+)	24
82SE 25	3.831	0+			25
82SE 26				3.865 (3-)	26
82SE 27	3.918	2+			27
82SE 28	4.035	2+			28 0.17 PS +10-5
82SE 29				4.088 (4-,5-)	29
82SE 30				4.094 (5-)	30
82SE 31	4.134	2+			31
82SE 32				4.232	32
82SE 33				4.245 (1-)	33
82SE 34	4.391	2+			34 0.13 PS 3
82SE 35				4.466 (4+)	35
82SE 36				4.535 (4+)	36
82SE 37				4.584 (4+)	37
82SE 38				4.809 (1-)	38

82SE	39				4.881	(4+)	39
82SE	40				4.969		40

82SE	41				4.983	(9+)	41
82SE	42				5.029	(1-)	42
82SE	43				5.046		43
82SE	44				5.192		44
82SE	45				5.457	(10+)	45 1.04 PS LT
82SE	46				5.687	(11)	46
82SE	47				6.129	(12)	47

S-p = 12.350 (0.003)-----
 S-n = 9.276 (0.001)-----
 S-2p = 22.637 (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)