

$^{81}\text{Se}$        $Z = 34$        $N = 47$       adopted link      ENSDF link

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

BE = 703.566 ( 0.001) MeV

Qbeta- = 1.588 ( 0.001) MeV

	Energy T	J+	J-	J-other	T1/2
81SE 1			0.000	1/2-	1 18.45 M 12
81SE 2	0.103	7/2+			2 57.28 M 2
81SE 3	0.294	9/2+			3
81SE 4			0.468	3/2-	4
81SE 5				0.491 (5/2)-	5
81SE 6				0.616	6
81SE 7			0.624	5/2-	7
81SE 8				0.782 7/2+,9/2+	8
81SE 9				0.889 (3/2+,5/2,7/2+)	9
81SE 10	1.053	5/2+			10
81SE 11				1.109 3/2+,5/2+	11
81SE 12	1.233	1/2+			12
81SE 13	1.303	5/2+			13
81SE 14			1.406	3/2-	14
81SE 15				1.628 1/2-,3/2-	15
81SE 16	1.703	3/2+			16
81SE 17				1.711 (1/2,3/2,5/2-)	17
81SE 18				1.725 (3/2)+	18
81SE 19				1.812 7/2+,9/2+	19
81SE 20	1.828	3/2+			20
81SE 21				2.030 1/2-,3/2-	21
81SE 22				2.150 1/2-,3/2-	22
81SE 23				2.174	23
81SE 24				2.179	24
81SE 25				2.253 (5/2+)	25
81SE 26				2.282 1/2-,3/2-	26
81SE 27	2.333	5/2+			27
81SE 28				2.383 (5/2-,7/2,9/2-)	28
81SE 29				2.475	29
81SE 30				2.532 (5/2)+	30
81SE 31				2.569 (1/2,3/2)	31
81SE 32				2.570 1/2-,3/2-,5/2-	32
81SE 33				2.596 1/2-,3/2-	33
81SE 34			2.660	5/2-	34
81SE 35				2.734	35
81SE 36				2.770 (5/2)-	36
81SE 37	2.774	5/2+			37

81SE	38				2.891	(7/2+,9/2+)	38
81SE	39				2.935	(5/2)-	39
81SE	40				2.938	(1/2+)	40
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81SE	41				2.953	1/2,3/2,5/2+	41
81SE	42				2.965	(5/2)-	42
81SE	43				2.985		43
81SE	44				2.986	(1/2+)	44
81SE	45	3.053	3/2+				45
81SE	46				3.093		46
81SE	47				3.150	(-)	47
81SE	48				3.208		48
81SE	49				3.223	(5/2)-	49
81SE	50				3.287		50
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81SE	51				3.308		51
81SE	52				3.349	1/2-,3/2-	52
81SE	53				3.379		53
81SE	54				3.411		54
81SE	55				3.435		55
81SE	56				3.477		56
81SE	57				3.526	1/2,3/2,5/2+	57
81SE	58				3.562		58
81SE	59	3.682	3/2+				59
81SE	60				3.774	3/2+,5/2+	60
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81SE	61	3.830	1/2+				61
81SE	62				3.920	(1/2+)	62
81SE	63				3.970	(1/2+)	63
81SE	64				4.095		64
81SE	65				4.137		65
81SE	66				4.164		66
81SE	67				4.215	(3/2+,5/2+)	67
81SE	68				4.260	(3/2+,5/2+)	68
81SE	69				4.437		69
81SE	70				4.559		70
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81SE	71				4.656		71
81SE	72				4.708		72
81SE	73				4.845		73
81SE	74				4.958		74
81SE	75				5.080		75
81SE	76				5.180		76
81SE	77				5.330		77

S-p = 11.463 ( 0.003)-----  
S-n = 6.701 ( 0.001)-----  
S-2p = 21.440 ( 0.037)-----  
S-2n = 16.614 ( 0.001)-----

S-alpha= 7.601 ( 0.001)-----

S+p = -8.399 ( 0.001)

S+n = -9.276 ( 0.001)

S+2p = -18.180 ( 0.001)

S+2n = -15.094 ( 0.003)

S+alpha = -7.516 ( 0.002)

gap p = 3.065 ( 0.004)

gap n = -2.575 ( 0.002)

gap 2p = 3.260 ( 0.037)

gap 2n = 1.520 ( 0.003)

gap alpha = 0.085 ( 0.002)