

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

Based on ensdf_240402 (Apr 2024), 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	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,	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	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-	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

81SE 41							2.953 1/2,3/2,5	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

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	57
81SE 58							3.562	58
81SE 59		3.682	3/2+					59
81SE 60							3.774 3/2+,5/2+	60

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

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) -----

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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)
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