

^{83}Se $Z = 34$ $N = 49$ [link to full NNDC output](#)

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

BE = 718.660 (0.003) MeV

Qbeta- = 3.673 (0.005) MeV

	Energy T	J+	J-	J-other	T1/2
83SE 1	0.000	9/2+			1 22.3 M 2
83SE 2			0.229 1/2-		2 70.1 S 4
83SE 3				0.360 (1/2+)	3
83SE 4				0.430 3/2+,5/2+	4
83SE 5	0.540	1/2+			5
83SE 6	0.582	5/2+			6 3.6 NS 6
83SE 7	0.822	3/2+			7
83SE 8	0.963	3/2+			8
83SE 9				1.063 (1/2+,3/2,5/2-)	9
83SE 10	1.100	3/2+			10
83SE 11				1.265 (5/2+,7/2+)	11
83SE 12				1.296 (11/2+)	12
83SE 13	1.332	5/2+			13
83SE 14				1.473 (3/2)+	14
83SE 15				1.527 (7/2+,9/2+)	15
83SE 16				1.587 3/2+,5/2+	16
83SE 17	1.665	5/2+			17
83SE 18				1.710 (1/2+,3/2)	18
83SE 19				1.808 (13/2+)	19
83SE 20				1.823 (5/2+,7/2,9/2+)	20
83SE 21				1.908	21
83SE 22				1.943 (5/2+,7/2+)	22
83SE 23				2.077 (5/2+,7/2+)	23
83SE 24				2.120 (5/2-,7/2-)	24
83SE 25				2.138 (1/2+,3/2)	25
83SE 26				2.178	26
83SE 27				2.190 (5/2+)	27
83SE 28				2.299 (15/2+)	28
83SE 29	2.314	5/2+			29
83SE 30				2.409	30
83SE 31				2.478 17/2	31
83SE 32	2.482	5/2+			32
83SE 33	2.546	3/2+			33
83SE 34				2.679	34
83SE 35				2.725 (5/2+,7/2+)	35
83SE 36	2.741	5/2+			36
83SE 37				2.803	37

83SE 38		2.858	5/2+				38
83SE 39						2.881	39
83SE 40						2.900	40

83SE 41						2.971	41
83SE 42						2.981	42
83SE 43						3.023	43
83SE 44						3.106	44
83SE 45						3.167	45
83SE 46		3.211	5/2+				46
83SE 47						3.244	47
83SE 48						3.282	48
83SE 49						3.333	49
83SE 50		3.353	5/2+				50

83SE 51						3.386	51
83SE 52						3.424	52
83SE 53		3.464	5/2+				53
83SE 54						3.559	54
83SE 55						3.610	55
83SE 56						3.647	56
83SE 57						3.690	57
83SE 58						3.777	58
83SE 59						3.800	59
83SE 60						3.828	60

83SE 61						3.899	61
83SE 62						3.912	62
83SE 63						4.002	63
83SE 64						4.020	64
83SE 65						4.080	65
83SE 66						4.180	66
83SE 67						4.286	67
83SE 68						4.290	68
83SE 69						4.420	69
83SE 70						4.520	70

83SE 71						4.680	71
83SE 72						4.770	72
83SE 73						4.950	73

S-p = 12.524 (0.005)-----
S-n = 5.818 (0.003)-----
S-2p = 23.627 (0.004)-----
S-2n = 15.094 (0.003)-----
S-alpha= 8.239 (0.037)-----

S+p = -9.732 (0.026)
S+n = -8.679 (0.004)

S+2p = -20.718 (0.004)
S+2n = -13.216 (0.004)
S+alpha = -7.794 (0.003)

gap p = 2.793 (0.026)
gap n = -2.861 (0.005)
gap 2p = 2.909 (0.005)
gap 2n = 1.878 (0.005)
gap alpha = 0.445 (0.037)