

^{79}Se $Z = 34$ $N = 45$ adopted link ENSDF link

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

BE = 686.952 (0.000) MeV

Qbeta- = 0.151 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2
79SE 1	0.000	7/2+			1 3.27E+5 Y 28
79SE 2			0.096 1/2-		2 3.92 M 1
79SE 3				0.128 (1/2-)	3
79SE 4	0.137	9/2+			4
79SE 5			0.365 5/2-		5 94 PS 24
79SE 6				0.499	6
79SE 7			0.528 3/2-		7 3.1 PS +24-10
79SE 8				0.534 (5/2+,7/2+)	8
79SE 9			0.572 5/2-		9 16 PS +5-2
79SE 10				0.586 (1/2+,3/2+)	10
79SE 11	0.630	5/2+			11
79SE 12				0.723 (LE 5/2)	12
79SE 13	0.729	5/2+			13
79SE 14				0.750 (1/2+,3/2+)	14
79SE 15				0.790 (7/2-)	15 13 PS 5
79SE 16				0.819 (7/2+)	16 0.76 PS +35-21
79SE 17	0.897	11/2+			17 0.62 PS +14-7
79SE 18			0.975 3/2-		18
79SE 19				0.983 (LE 7/2)	19
79SE 20	1.008	11/2+			20 1.2 PS +7-4
79SE 21				1.061 (5/2+,7/2,9/2+)	21
79SE 22	1.072	13/2+			22 0.83 PS +28-21
79SE 23				1.080 (3/2)	23
79SE 24				1.089 (3/2-)	24
79SE 25				1.110 (9/2+)	25 1.0 PS 3
79SE 26			1.134 1/2-		26
79SE 27	1.156	1/2+			27
79SE 28				1.231 (7/2+)	28 1.0 PS +4-3
79SE 29	1.253	5/2+			29 0.48 PS +35-21
79SE 30				1.257 (9/2-)	30 0.7 PS +4-3
79SE 31				1.312 (7/2-)	31 0.21 PS GT
79SE 32				1.322 (5/2-)	32 0.42 PS +14-11
79SE 33			1.340 9/2-		33 0.62 PS +21-14
79SE 34				1.346 (5/2+,7/2+)	34
79SE 35				1.385 (5/2-,7/2-)	35
79SE 36				1.418 (7/2)	36
79SE 37				1.441 (3/2-,5/2-)	37

79SE 38						1.490	(9/2-)	38	0.21 PS +10-7
79SE 39		1.491	1/2+					39	
79SE 40						1.526	(LE 5/2)	40	

79SE 41						1.561		41	
79SE 42		1.597	3/2+					42	
79SE 43						1.637	(13/2+)	43	
79SE 44						1.647	(5/2+,7/2+)	44	
79SE 45						1.668	(11/2+)	45	
79SE 46		1.671	5/2+					46	
79SE 47						1.713	(7/2+,9/2,11/2+)	47	
79SE 48		1.739	3/2+					48	
79SE 49						1.760		49	
79SE 50						1.764	(7/2,9/2+,11/2)	50	0.8 PS +4-3

79SE 51						1.765	(11/2-)	51	
79SE 52						1.797	(3/2)	52	
79SE 53						1.817	(5/2-,7/2-)	53	
79SE 54				1.863	3/2-			54	
79SE 55						1.934	(5/2)	55	
79SE 56						1.936	(9/2+)	56	
79SE 57				1.959	3/2-			57	
79SE 58						1.968	(13/2+)	58	0.35 PS +17-7
79SE 59						2.039	1/2-,3/2-	59	
79SE 60						2.092	5/2-,7/2-	60	

79SE 61		2.114	15/2+					61	0.42 PS +28-14
79SE 62						2.127	(3/2)-	62	
79SE 63		2.172	5/2+					63	
79SE 64						2.182	(13/2-)	64	1.0 PS +7-4
79SE 65						2.182	(13/2-)	65	0.28 PS +21-14
79SE 66						2.210	(9/2+)	66	
79SE 67						2.255	(3/2)-	67	
79SE 68		2.258	17/2+					68	0.7 PS +4-3
79SE 69						2.280	(11/2,13/2)	69	
79SE 70						2.303	(13/2-)	70	

79SE 71						2.306	(3/2-,5/2-)	71	
79SE 72						2.328	(15/2+)	72	
79SE 73						2.336	(3/2-,5/2-)	73	
79SE 74						2.340	(5/2)+	74	
79SE 75		2.373	5/2+					75	
79SE 76						2.416	(3/2-,5/2-)	76	
79SE 77						2.467	(1/2+,3/2+)	77	
79SE 78		2.475	5/2+					78	
79SE 79						2.543		79	
79SE 80						2.552	(1/2+,3/2+)	80	

79SE 81		2.581	5/2+					81	
79SE 82						2.599	(3/2-,5/2-)	82	

79SE 83				2.651	(5/2+, 7/2+)	83
79SE 84				2.663	(5/2+)	84
79SE 85				2.689	(5/2+)	85
79SE 86				2.712	(5/2+)	86
79SE 87				2.736	(3/2-, 5/2-)	87
79SE 88				2.738	(11/2, 13/2+, 15/2 88+)	0.49 PS +35-21
79SE 89				2.769	(5/2+)	89
79SE 90		2.834	5/2+			90

79SE 91				2.904	(1/2-, 3/2)	91
79SE 92		2.941	1/2+			92
79SE 93				2.963	(LE 5/2)	93
79SE 94			2.987	1/2-		94
79SE 95			3.032	1/2-		95
79SE 96				3.062	(3/2-)	96
79SE 97				3.121	(5/2+, 7/2+)	97
79SE 98				3.171	1/2-, 3/2, 5/2+	98
79SE 99				3.177	(3/2, 5/2+)	99
79SE 100				3.221	(1/2+, 3/2+)	100

79SE 101		3.280	1/2+			101
79SE 102				3.340	(3/2)+	102
79SE 103		3.410	3/2+			103
79SE 104				3.506	(1/2, 3/2)	104
79SE 105				3.564	(5/2+)	105
79SE 106				3.611		106
79SE 107		3.677	1/2+			107
79SE 108				3.755	(3/2+)	108
79SE 109				3.796	(3/2+)	109
79SE 110				3.845	(3/2+)	110

79SE 111				3.954	(3/2+)	111
79SE 112				4.090	(3/2+)	112
79SE 113		4.147	3/2+			113
79SE 114				4.360	(3/2+)	114

S-alpha=		6.485	(0.000)	-----		
S-n		= 6.963	(0.000)	-----		
79SE 115		6.963	1/2+			115
79SE 116		6.963	1/2+			116

S-p		= 10.389	(0.010)	-----		
S-n		= 6.963	(0.000)	-----		
S-2p		= 19.283	(0.000)	-----		
S-2n		= 17.461	(0.000)	-----		
S-alpha=		6.485	(0.000)	-----		

S+p		= -7.261	(0.001)	-----		
S+n		= -9.913	(0.001)	-----		
S+2p		= -16.357	(0.001)	-----		

S+2n = -16.614 (0.001)
S+alpha = -6.498 (0.000)

gap p = 3.129 (0.010)
gap n = -2.951 (0.001)
gap 2p = 2.926 (0.001)
gap 2n = 0.846 (0.001)
gap alpha = -0.013 (0.000)