

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

Based on ensdf_240402 (Apr 2024), 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	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	47)		
79SE 48		1.739	3/2+				48		
79SE 49						1.760	49		
79SE 50						1.764 (7/2,9/2+	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/	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/	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,	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)