

^{78}Ge $Z = 32$ $N = 46$ [link to full NNDC output](#)

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

BE = 676.390 (0.004) MeV

Qbeta- = 0.955 (0.010) MeV

	Energy T	J+	J-	J-other	T1/2
78GE 1	0.000	0+			1 88.0 M 10
78GE 2	0.619	2+			2 13.5 PS 24
78GE 3	1.187	2+			3 12 PS 6
78GE 4	1.547	0+			4 25 PS 11
78GE 5	1.570	4+			5 3.5 PS LT
78GE 6				1.645 (2,3,4+)	6 15 PS 6
78GE 7	1.843	2+			7
78GE 8				2.292 (4+)	8
78GE 9				2.320 (2,3,4)	9 43 PS 5
78GE 10				2.330	10
78GE 11				2.404	11
78GE 12				2.439 (2+)	12 7 PS LT
78GE 13				2.652 (5-)	13
78GE 14				2.666 (2,3,4+)	14 4.2 PS 25
78GE 15				2.706 (2+)	15
78GE 16				2.748 (6+)	16
78GE 17				2.759 (3-,4+)	17
78GE 18				2.850 (5-)	18
78GE 19				2.857 (2,3,4+)	19
78GE 20				2.953 (4+)	20 9 PS 4
78GE 21				3.121 (2,3,4+)	21 2.8 PS LT
78GE 22				3.183 (2+)	22
78GE 23				3.236 (1-&3-)	23
78GE 24				3.287 (6+)	24
78GE 25				3.350 (0+)	25
78GE 26				3.390 (2+,3,4+)	26
78GE 27				3.615 (3-)	27
78GE 28				3.638 (2+)	28
78GE 29	3.667	0+			29
78GE 30				3.688 (4+)	30
78GE 31				3.714 (8+)	31
78GE 32				3.797 (3-)	32
78GE 33				3.816 (2+)	33
78GE 34	3.898	0+			34
78GE 35				3.965 (2+)	35
78GE 36				4.015 (0+)	36
78GE 37				4.036 (5-)	37

78GE	38				4.070	(2+)	38
78GE	39				4.084	(2,3,4+)	39
78GE	40				4.115	(1-)	40

78GE	41				4.134	(2+)	41
78GE	42				4.270	(2,3,4+)	42
78GE	43				4.279	(2,3,4+)	43
78GE	44				4.305		44
78GE	45				4.335		45
78GE	46				4.378		46
78GE	47				4.745		47
78GE	48				4.816		48
78GE	49				5.078	(2,3,4+)	49
78GE	50				5.191		50

78GE	51				5.324		51

S-p = 13.159 (0.004)-----
 S-n = 8.721 (0.004)-----
 S-2p = 24.137 (0.004)-----
 S-2n = 14.792 (0.004)-----
 S-alpha= 8.530 (0.004)-----

S+p = -9.063 (0.006)
 S+n = -5.736 (0.037)
 S+2p = -20.475 (0.004)
 S+2n = -13.816 (0.004)
 S+alpha = -8.157 (0.004)

gap p = 4.096 (0.008)
 gap n = 2.985 (0.038)
 gap 2p = 3.662 (0.005)
 gap 2n = 0.976 (0.005)
 gap alpha = 0.374 (0.006)