

$^{77}\text{Ge}$        $Z = 32$        $N = 45$       [link to full NNDC output](#)

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

BE = 667.669 ( 0.000) MeV

Qbeta- = 2.703 ( 0.002) MeV

	Energy T	J+	J-	J-other	T1/2
77GE 1	0.000	7/2+			1 11.211 H 3
77GE 2			0.160 1/2-		2 53.7 S 6
77GE 3	0.225	9/2+			3
77GE 4	0.421	5/2+			4
77GE 5			0.492 5/2-		5
77GE 6	0.505	5/2+			6
77GE 7				0.619 (3/2+)	7
77GE 8			0.630 3/2-		8
77GE 9				0.761 7/2(+)	9
77GE 10				0.809	10
77GE 11	0.884	5/2+			11
77GE 12				0.911 (5/2+,7/2+)	12
77GE 13			1.022 3/2-		13
77GE 14				1.048 (1/2,3/2)	14
77GE 15				1.053 1/2-,3/2-	15
77GE 16				1.111	16
77GE 17				1.189 (7/2+,9/2+)	17
77GE 18	1.247	1/2+			18
77GE 19				1.275	19
77GE 20				1.287	20
77GE 21				1.345	21
77GE 22				1.359 (1/2,3/2,5/2)	22
77GE 23	1.385	5/2+			23
77GE 24				1.408	24
77GE 25	1.535	1/2+			25
77GE 26				1.610	26
77GE 27				1.664 (1/2+,3/2)	27
77GE 28	1.775	1/2+			28
77GE 29	1.804	3/2+			29
77GE 30				1.835 (1/2,3/2)	30
77GE 31				1.836 (1/2+)	31
77GE 32				1.879 (1/2+,3/2)	32
77GE 33				1.901 (1/2,3/2)	33
77GE 34				1.952 (3/2+)	34
77GE 35				2.063 (3/2)	35
77GE 36				2.088 (7/2+,9/2+)	36
77GE 37				2.119 (3/2+)	37

77GE 38				2.178	(1/2+,3/2)	38
77GE 39				2.195	(1/2,3/2)	39
77GE 40				2.260		40
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77GE 41				2.305	(3/2+,5/2+)	41
77GE 42				2.368	(1/2,3/2)	42
77GE 43				2.442	(3/2+,5/2+)	43
77GE 44				2.479	(1/2+)	44
77GE 45				2.507	(1/2,3/2)	45
77GE 46				2.556		46
77GE 47				2.783		47
77GE 48				2.814	(1/2:7/2-)	48
77GE 49				2.873	(1/2+)	49
77GE 50				2.929		50
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77GE 51				2.960	(1/2+)	51
77GE 52				2.998		52
77GE 53				3.090		53
77GE 54				3.135		54
77GE 55				3.147		55
77GE 56				3.242	(3/2+,5/2+)	56
77GE 57				3.257	(1/2+)	57
77GE 58				3.287	(1/2+,3/2)	58
77GE 59				3.364	(3/2+,5/2+)	59
77GE 60				3.388		60
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77GE 61				3.443		61
77GE 62				3.496		62
77GE 63				3.547		63
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S-n	=	6.071	( 0.000)	-----		
77GE 64		6.071	1/2+			64
77GE 65		6.072	1/2+			65
77GE 66		6.076	1/2+			66
77GE 67		6.078	1/2+			67
77GE 68		6.085	1/2+			68
77GE 69		6.086	1/2+			69
77GE 70		6.092	1/2+			70
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77GE 71		6.094	1/2+			71
77GE 72		6.101	1/2+			72
77GE 73		6.119	1/2+			73
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S-p	=	12.205	( 0.002)	-----		
S-n	=	6.071	( 0.000)	-----		
S-2p	=	23.232	( 0.002)	-----		
S-2n	=	15.498	( 0.000)	-----		
S-alpha	=	8.044	( 0.002)	-----		
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S+p	=	-8.893	( 0.010)	-----		

S+n = -8.721 ( 0.004)  
S+2p = -19.283 ( 0.000)  
S+2n = -14.456 ( 0.037)  
S+alpha = -7.601 ( 0.001)

gap p = 3.312 ( 0.010)  
gap n = -2.649 ( 0.004)  
gap 2p = 3.949 ( 0.002)  
gap 2n = 1.042 ( 0.037)  
gap alpha = 0.443 ( 0.002)