

$^{77}\text{Ga}$        $Z = 31$        $N = 46$       [link to full NNDC output](#)

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

BE = 663.231 ( 0.002) MeV

Qbeta- = 5.221 ( 0.002) MeV

	Energy T	J+	J-	J-other	T1/2
77GA 1				0.000 3/2(-)	1 13.2 S 2
77GA 2				0.106 (1/2-)	2 4 NS LT
77GA 3				0.161 (3/2-)	3 2 NS LT
77GA 4				0.189 (5/2-)	4 2 NS LT
77GA 5				0.474 (5/2-)	5
77GA 6				0.626 (7/2-)	6
77GA 7				0.873 (7/2-)	7
77GA 8				1.116 (9/2-)	8
77GA 9				1.234 (3/2-,5/2-)	9
77GA 10				1.282 (7/2-,9/2-)	10
77GA 11				1.403	11
77GA 12				1.477 (11/2-)	12
77GA 13				1.516	13
77GA 14				1.797	14
77GA 15				1.832 (+)	15
77GA 16				1.858	16
77GA 17				1.873	17
77GA 18				1.970 (11/2-)	18
77GA 19				2.028	19
77GA 20				2.029 (9/2+)	20 4.4 NS 8
77GA 21				2.138 (+)	21
77GA 22				2.149	22
77GA 23				2.207 (13/2-)	23
77GA 24				2.328	24
77GA 25				2.349	25
77GA 26				2.357	26
77GA 27				2.385	27
77GA 28				2.426	28
77GA 29				2.621 (13/2+)	29
77GA 30				2.699 (+)	30
77GA 31				2.806 (+)	31
77GA 32				2.829	32
77GA 33				2.862	33
77GA 34				3.218 (17/2-)	34
77GA 35				3.243	35
77GA 36				3.268 (+)	36
77GA 37				3.530	37

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S-p    = 10.978 ( 0.003)-----  
S-n    =  7.767 ( 0.003)-----  
S-2p   = 26.099 ( 0.003)-----  
S-2n   = 13.670 ( 0.003)-----  
S-alpha=  9.430 ( 0.003)-----  
  
S+p    = -13.159 ( 0.004)  
S+n    =  -5.785 ( 0.003)  
S+2p   = -22.222 ( 0.006)  
S+2n   = -12.698 ( 0.003)  
S+alpha = -8.966 ( 0.004)  
  
gap p   = -2.180 ( 0.005)  
gap n   =  1.982 ( 0.004)  
gap 2p  =  3.877 ( 0.007)  
gap 2n  =  0.972 ( 0.005)  
gap alpha =  0.464 ( 0.005)
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