

^{73}Ga $Z = 31$ $N = 42$ [link to full NNDC output](#)

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

BE = 634.653 (0.002) MeV

Qbeta- = 1.598 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2
73GA 1			0.000	3/2-	1 4.86 H 3
73GA 2				0.198	5/2-,7/2- 2
73GA 3			0.218	3/2-	3
73GA 4				0.496	5/2-,7/2- 4
73GA 5			0.911	3/2-	5
73GA 6				0.956	5/2-,7/2- 6
73GA 7				1.117	1/2-,3/2- 7
73GA 8				1.235	(9/2+) 8
73GA 9				1.396	(5/2:11/2)- 9
73GA 10				1.528	5/2-,7/2- 10
73GA 11				1.578	(5/2-) 11
73GA 12				1.618	5/2-,7/2- 12
73GA 13				1.692	(1/2:7/2-) 13
73GA 14				1.700	(1/2:7/2)- 14
73GA 15				1.771	(5/2,7/2)- 15
73GA 16				1.800	(3/2-) 16
73GA 17				1.924	(1/2:7/2)- 17
73GA 18				1.952	(1/2:7/2)- 18
73GA 19				2.001	(1/2:7/2)- 19
73GA 20				2.067	(3/2:9/2)+ 20
73GA 21			2.109	3/2-	21
73GA 22				2.160	(1/2:7/2)- 22
73GA 23				2.221	(1/2:7/2)- 23
73GA 24				2.277	(5/2:11/2)- 24
73GA 25				2.380	(5/2:11/2)- 25
73GA 26				2.411	(1/2:7/2) (-) 26
73GA 27				2.467	(3/2:9/2) (+) 27
73GA 28				2.498	(3/2:9/2)+ 28
73GA 29				2.582	(1/2:7/2)- 29
73GA 30				2.726	(5/2-,7/2-) 30
73GA 31				2.990	(1/2:7/2-) 31

S-p = 8.843 (0.003)-----
 S-n = 9.182 (0.002)-----
 S-2p = 21.566 (0.002)-----
 S-2n = 15.703 (0.002)-----

S-alpha= 6.388 (0.002)-----

S+p = -11.012 (0.002)

S+n = -6.422 (0.003)

S+2p = -17.913 (0.002)

S+2n = -14.908 (0.003)

S+alpha = -6.642 (0.002)

gap p = -2.169 (0.003)

gap n = 2.761 (0.004)

gap 2p = 3.653 (0.003)

gap 2n = 0.795 (0.003)

gap alpha = -0.254 (0.003)