

^{73}Ga $Z = 31$ $N = 42$ adopted link ENSDF link

Based on ensdf_240402 (Apr 2024), and mass evaluation from 2020

BE = 634.653 (0.002) MeV

Qbeta- = 1.598 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2

73GA 1			0.000	1/2-	1 4.86 H 3
73GA 2			0.000	3/2-	2 200 MS LT
73GA 3			0.199	5/2-	3
73GA 4			0.218	3/2-	4 47 PS 6
73GA 5				0.496 5/2-,7/2-	5 22 PS 6
73GA 6			0.651	(7/2-)	6
73GA 7			0.911	3/2-	7 28 PS LE
73GA 8			0.952	7/2-	8
73GA 9			1.114	1/2-	9
73GA 10	1.232	9/2+			10

73GA 11			1.393	(5/2-)	11
73GA 12			1.398	(9/2-)	12
73GA 13				1.529 5/2-,7/2-	13
73GA 14			1.578	(5/2-)	14
73GA 15			1.596	(11/2-)	15
73GA 16				1.618 5/2-,7/2-	16
73GA 17				1.693 (1/2-,3/2	17
73GA 18				1.700 (1/2:7/2)	18
73GA 19				1.722 (1/2-,3/2	19
73GA 20				1.772 (5/2,7/2)	20

73GA 21			1.800	(3/2-)	21
73GA 22	1.813	(13/2+)			22
73GA 23				1.925 1/2-,3/2-	23
73GA 24				1.952 (1/2:7/2)	24
73GA 25				1.980 (1/2-,3/2	25
73GA 26				2.001 (1/2:7/2)	26
73GA 27				2.067 (3/2:9/2)	27
73GA 28			2.067	7/2-	28
73GA 29			2.109	3/2-	29
73GA 30				2.160 (1/2:7/2)	30

73GA 31				2.221 (1/2:7/2)	31
73GA 32				2.246 (1/2-,3/2	32
73GA 33				2.277 (5/2:11/2	33
73GA 34				2.380 (5/2:11/2	34
73GA 35			2.380	1/2-	35
73GA 36				2.411 (1/2:7/2)	36

73GA	37		2.467		(3/2+)						37
73GA	38								2.498 (3/2:9/2)		38
73GA	39						2.528		(13/2-)		39
73GA	40								2.582 (1/2:7/2)		40

73GA	41		2.718		(17/2+)						41
73GA	42								2.726 (5/2-,7/2)		42
73GA	43						2.761		(15/2-)		43
73GA	44								2.770 (1/2-,3/2)		44
73GA	45								2.814		45
73GA	46								2.987 (1/2,3/2)		46
73GA	47								3.099 (1/2-,3/2)		47
73GA	48						3.397		(17/2-)		48
73GA	49						3.828		(19/2-)		49
73GA	50		3.973		(21/2+)						50

73GA	51		5.293		(25/2+)						51

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 = -14.904 (0.002)
 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 = 0.799 (0.003)
 gap alpha = -0.254 (0.003)