

$^{71}\text{Ga}$        $Z = 31$        $N = 40$       adopted link      ENSDF link

Based on ensdf\_240402 (Apr 2024), and mass evaluation from 2020

BE = 618.950 ( 0.001) MeV

	Energy T	J+	J-	J-other	T1/2
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71GA 1			0.000	3/2-	1 STABLE
71GA 2			0.390	1/2-	2 0.40 PS +28-12
71GA 3			0.487	5/2-	3 62 PS 38
71GA 4			0.512	3/2-	4 1.5 PS 7
71GA 5					5
71GA 6			0.910	3/2-	6 0.46 PS 22
71GA 7			0.965	5/2-	7 1.3 PS 2
71GA 8			1.107	7/2-	8 0.48 PS +14-10
71GA 9			1.109	1/2-	9 95 FS 12
71GA 10			1.395	7/2-	10 0.77 PS 6
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71GA 11			1.476	5/2-	11 0.6 PS GT
71GA 12	1.494	9/2+			12 154 PS 15
71GA 13			1.498	9/2-	13
71GA 14			1.631	3/2-	14 0.15 PS +12-6
71GA 15	1.699	1/2+			15 0.25 PS GT
71GA 16			1.720	5/2-	16 0.12 PS +5-2
71GA 17			1.752	3/2-	17 0.26 PS +24-10
71GA 18			1.905	5/2-	18 0.24 PS +11-6
71GA 19			1.942	(9/2-)	19
71GA 20			1.942	(3/2-)	20
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71GA 21				1.992 5/2-,7/2-	21
71GA 22				2.064 1/2-,3/2-	22 82 FS 40
71GA 23			2.070	11/2(-)	23
71GA 24	2.082	(13/2+)			24
71GA 25				2.134 5/2-,7/2-	25
71GA 26				2.191 5/2-,7/2	26
71GA 27	2.247	7/2+			27 0.021 PS +6-5
71GA 28			2.294	1/2-	28
71GA 29				2.327 1/2-,3/2-	29
71GA 30				2.396 -	30
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71GA 31				2.421 1/2-,3/2-	31
71GA 32	2.451	7/2+			32
71GA 33	2.488	(7/2)+			33
71GA 34				2.528 1/2-,3/2-	34
71GA 35				2.551 +	35
71GA 36	2.601	(9/2)+			36
71GA 37				2.614 +	37

71GA 38						2.658 -	38
71GA 39				2.684	13/2(-)		39
71GA 40		2.720	7/2+				40
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71GA 41						2.747 -	41
71GA 42		2.805	(7/2)+				42
71GA 43				2.812	(-)		43
71GA 44		2.816	7/2+				44 0.19 PS +13-6
71GA 45						2.852	45
71GA 46		2.932	(+)				46
71GA 47		2.942	(17/2+)				47
71GA 48						2.967 (3/2+,5/2	48
71GA 49				2.974	(-)		49
71GA 50						3.016	50
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71GA 51				3.035	(13/2-)		51
71GA 52						3.153 3/2+,5/2+	52
71GA 53				3.154	(15/2-)		53
71GA 54						3.227 1/2-,3/2-	54
71GA 55						3.438	55
71GA 56						3.506	56
71GA 57						3.607 3/2+,5/2+	57
71GA 58						3.683	58
71GA 59				3.695	(17/2-)		59
71GA 60						3.749 3/2+,5/2+	60
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71GA 61		3.813	1/2+				61
71GA 62				3.840	(17/2-)		62
71GA 63						3.863	63
71GA 64				3.910	(17/2-)		64
71GA 65						3.999	65
71GA 66		4.029	(21/2+)				66
71GA 67						4.060	67
71GA 68		4.130	1/2+				68
71GA 69				4.165	(21/2-)		69
71GA 70				4.200	(19/2-)		70
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71GA 71		4.211	1/2+				71
71GA 72						4.278	72
71GA 73						4.382	73
71GA 74						4.487	74
71GA 75		4.644	1/2+				75
71GA 76						4.692	76
71GA 77						4.813 (3/2+,5/2	77
71GA 78				4.873	(21/2-)		78
71GA 79		5.221	1/2+				79
71GA 80		5.228	(25/2+)				80
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S-alpha=	5.245	( 0.001)	-----				
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71GA 81		6.574	(29/2+)				81

S-p	=	7.863	( 0.002)	-----				
S-n	=	9.300	( 0.001)	-----				
71GA	82				11.590	1/2-		82 20 KEV 5
71GA	83		11.671	(3/2+)				83 2.0 KEV 2
71GA	84		11.702	(3/2+)				84 7.0 KEV 7
71GA	85		11.728	(3/2+)				85 0.50 KEV 5
71GA	86		11.740	(3/2+)				86 4.0 KEV 4
71GA	87							11.885 87 23 KEV 5
71GA	88							12.067 88 34 KEV 5
71GA	89					12.264	3/2-	89 39 KEV 4
71GA	90		12.453	5/2+				90 15 KEV 2
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71GA	91		12.862	5/2+				91 19 KEV 1
71GA	92					13.012	3/2-	92 11 KEV 1
71GA	93		13.215	1/2+				93 42 KEV 2
71GA	94		13.267	5/2+				94 38 KEV 1
71GA	95		13.773	5/2+				95 35 KEV 5
71GA	96		13.918	1/2+				96 55 KEV 15

S-p = 7.863 ( 0.002) -----  
S-n = 9.300 ( 0.001) -----  
S-2p = 18.981 ( 0.002) -----  
S-2n = 16.954 ( 0.001) -----  
S-alpha = 5.245 ( 0.001) -----

S+p = -9.736 ( 0.001)  
S+n = -6.520 ( 0.001)  
S+2p = -15.392 ( 0.004)  
S+2n = -15.703 ( 0.002)  
S+alpha = -5.320 ( 0.001)

gap p = -1.872 ( 0.002)  
gap n = 2.780 ( 0.002)  
gap 2p = 3.589 ( 0.004)  
gap 2n = 1.251 ( 0.002)  
gap alpha = -0.075 ( 0.002)