

^{141}Gd $Z = 64$ $N = 77$ adopted link ENSDF link

Based on ENSDF from Oct 2022, and mass evaluation from 2020

BE = 1151.210 (0.020) MeV

Qbeta+ = 6.701 (0.023) MeV

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

S-alpha=	-2.343	(0.035)	-----		
141GD 1	0.000	1/2+			1 14 S 4
141GD 2				0.113 (3/2+)	2
141GD 3				0.198 (3/2+)	3
141GD 4	0.258	5/2+			4
141GD 5			0.378 11/2-		5 24.5 S 5
141GD 6				0.492 (5/2+,3/2-)	6
141GD 7				0.514 (9/2,11/2-)	7
141GD 8				0.552 (7/2-)	8
141GD 9				0.646 (7/2-)	9
141GD 10				0.661 (3/2-,5/2-)	10

141GD 11				0.753 (3/2-,5/2-)	11
141GD 12				0.758 (3/2-,5/2-,7/2-)	12
141GD 13				0.895 (7/2-)	13
141GD 14				0.907 (15/2-)	14
141GD 15				0.941 (7/2-)	15
141GD 16				0.990 (7/2-)	16
141GD 17			0.995 13/2-		17
141GD 18				1.100 (7/2-)	18
141GD 19				1.132 (7/2-)	19
141GD 20				1.282 (9/2-)	20

141GD 21				1.548 (11/2-)	21
141GD 22			1.661 17/2-		22
141GD 23				1.671 (19/2-)	23
141GD 24				1.873 (13/2-)	24
141GD 25				2.137 (19/2-)	25
141GD 26				2.150 (13/2+)	26
141GD 27				2.254 (15/2-)	27
141GD 28				2.276 (15/2-)	28
141GD 29				2.448 (21/2-)	29
141GD 30				2.517 (23/2-)	30

141GD 31				2.561 (23/2-)	31
141GD 32				2.597 (17/2-)	32
141GD 33				2.685 (17/2+)	33
141GD 34				2.759 (25/2-)	34
141GD 35				2.875 (19/2-)	35
141GD 36				3.148 (25/2-)	36

141GD	37				3.233	(21/2+)	37
141GD	38				3.278	(23/2-)	38
141GD	39				3.308	(27/2-)	39
141GD	40				3.383	(27/2-)	40

S-p = 3.527 (0.055)-----

141GD	41				3.594	(29/2-)	41
141GD	42				3.779	(27/2-)	42
141GD	43				3.808	(29/2-)	43
141GD	44				3.814	(25/2+)	44
141GD	45				3.916	(31/2-)	45
141GD	46				4.058	(31/2-)	46
141GD	47				4.300	(33/2-)	47
141GD	48				4.449	(31/2-)	48
141GD	49				4.471	(29/2+)	49
141GD	50				4.679	(35/2-)	50

141GD	51				4.894	(35/2-)	51
141GD	52				5.214	(33/2+)	52
141GD	53				5.265	(35/2-)	53

S-2p = 5.422 (0.023)-----

141GD	54				5.775	(39/2-)	54
141GD	55				6.036	(37/2+)	55
141GD	56				6.124	(39/2-)	56
141GD	57				6.926	(41/2+)	57
141GD	58				7.031	(43/2-)	58
141GD	59				7.874	(45/2+)	59
141GD	60				8.112	(47/2-)	60

141GD	61				8.855	(49/2+)	61
141GD	62				9.379	(51/2)	62

S-n = 9.513 (0.034)-----

141GD	63				9.884	(53/2+)	63
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S-p = 3.527 (0.055)-----

S-n = 9.513 (0.034)-----

S-2p = 5.422 (0.023)-----

S-2n = 21.696 (0.140)-----

S-alpha= -2.343 (0.035)-----

S+p = -0.624 (0.701)

S+n = -11.807 (0.034)

S+2p = -3.523 (0.024)

S+2n = -21.150 (0.201)

S+alpha = 2.557 (0.021)

gap p = 2.903 (0.703)

gap n = -2.293 (0.048)

gap 2p = 1.899 (0.033)

gap 2n = 0.546 (0.245)
gap alpha = 0.214 (0.041)