

$^{147}\text{Ho}$        $Z = 67$        $N = 80$       adopted link      ENSDF link

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

BE = 1189.824 ( 0.005) MeV

Qbeta+ = 8.439 ( 0.010) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-2.237	( 0.051)	-----		
147HO 1				0.000 (11/2-)	1 5.8 S 4
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S-p	=	0.491	( 0.008)	-----	
147HO 2				0.585 (13/2-)	2
147HO 3				0.765 (15/2-)	3
147HO 4				1.527 (17/2-)	4
147HO 5				1.540 (15/2+)	5
147HO 6				1.736 (19/2-)	6
147HO 7				1.983 (19/2-)	7
147HO 8				2.055 (19/2+)	8
147HO 9				2.188 (19/2+)	9
147HO 10				2.353 (21/2+)	10 20 NS LT
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147HO 11				2.431 (23/2+)	11
147HO 12				2.469 (23/2+)	12
147HO 13				2.542 (21/2-)	13
147HO 14				2.655 (23/2-)	14
147HO 15				2.687 (27/2-)	15 315 NS 30
147HO 16				3.025 (25/2+)	16
147HO 17				3.090 (25/2+)	17
147HO 18				3.198 (25/2+)	18
147HO 19				3.357 (25/2+)	19
147HO 20				3.391 (27/2-)	20
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147HO 21				3.396 (27/2-)	21
147HO 22				3.423 (27/2+)	22
147HO 23				3.472 (29/2-)	23
147HO 24				3.701 (27/2+)	24
147HO 25				3.734 (27/2+)	25
147HO 26				3.758 (29/2-)	26
147HO 27				3.905 (29/2+)	27
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S-2p	=	3.935	( 0.111)	-----	
147HO 28				3.938 (31/2-)	28
147HO 29				4.060 (31/2-)	29
147HO 30				4.194 (31/2-)	30
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147HO 31				4.221 (31/2+)	31
147HO 32				4.322 (33/2-)	32
147HO 33				4.509 (31/2-)	33
147HO 34				4.604 (31/2+)	34

147HO 35				4.689	(33/2+)	35
147HO 36				4.766	(33/2-)	36
147HO 37				4.839	(33/2+)	37
147HO 38				4.882	(33/2+)	38
147HO 39				4.889	(33/2-)	39
147HO 40				4.904	(35/2-)	40
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147HO 41				4.937	(33/2-)	41
147HO 42				4.981	(33/2-)	42
147HO 43				4.984	(35/2-)	43
147HO 44				5.034	(35/2-)	44
147HO 45				5.060	(35/2+)	45
147HO 46				5.082	(35/2-)	46
147HO 47				5.185	(35/2-)	47
147HO 48				5.190	(35/2+)	48
147HO 49				5.253	(35/2-)	49
147HO 50				5.320	(37/2-)	50
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147HO 51				5.335	(37/2-)	51
147HO 52				5.382	(35/2-)	52
147HO 53				5.444	(37/2+)	53
147HO 54				5.562	(37/2+)	54
147HO 55				5.563	(39/2-)	55
147HO 56				5.581	(37/2+)	56
147HO 57				5.685	(37/2-)	57
147HO 58				5.873	(39/2-)	58
147HO 59				5.953	(39/2+)	59
147HO 60				6.001	(41/2-)	60
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147HO 61				6.016	(39/2-)	61
147HO 62				6.020	(39/2+)	62
147HO 63				6.093	(39/2+)	63
147HO 64				6.156	(41/2-)	64
147HO 65				6.187	(39/2-)	65
147HO 66				6.248	(39/2+)	66
147HO 67				6.292	(39/2-)	67
147HO 68				6.333	(39/2-)	68
147HO 69				6.364	(41/2-)	69
147HO 70				6.434	(41/2+)	70
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147HO 71				6.440	(41/2+)	71
147HO 72				6.466	(41/2-)	72
147HO 73				6.505	(41/2+)	73
147HO 74				6.528	(43/2-)	74
147HO 75				6.559	(43/2-)	75
147HO 76				6.637	(43/2-)	76
147HO 77				6.779	(43/2+)	77
147HO 78				6.856	(43/2+)	78
147HO 79				6.896	(43/2+)	79
147HO 80				7.022	(45/2-)	80

147HO	81				7.096	(45/2+)	81
147HO	82				7.099	(45/2-)	82
147HO	83				7.205	(45/2-)	83
147HO	84				7.250	(45/2-)	84
147HO	85				7.328	(45/2+)	85
147HO	86				7.395	(47/2-)	86
147HO	87				7.532	(47/2-)	87
147HO	88				7.569	(47/2+)	88
147HO	89				7.581	(49/2-)	89
147HO	90				7.600	(43/2-)	90
147HO	91				8.105	(51/2-)	91
147HO	92				8.661	(53/2-)	92
147HO	93				0.000	(11/2-)	93 5.8 S 4

S-p = 0.491 ( 0.008)-----  
S-n = 12.590 ( 0.008)-----  
S-2p = 3.935 ( 0.111)-----  
S-2n = 22.780 ( 0.009)-----  
S-alpha= -2.237 ( 0.051)-----

S+p = -3.011 ( 0.011)  
S+n = -10.305 ( 0.084)  
S+2p = -2.772 ( 0.149)  
S+2n = -22.031 ( 0.013)  
S+alpha = 2.561 ( 0.020)

gap p = -2.520 ( 0.014)  
gap n = 2.285 ( 0.084)  
gap 2p = 1.163 ( 0.186)  
gap 2n = 0.748 ( 0.016)  
gap alpha = 0.323 ( 0.055)