^{150}Nd $Z = 60$ $N = 90$ link to full NNDC output

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

BE = 1237.437 (0.001) MeV

	Energy T	J+	J-	J-other	T1/2
150ND 1	0.000	0+		1	0.91E19 Y 7
150ND 2	0.130	2+		2	1.48 NS 3
150ND 3	0.381	4+		3	60.5 PS 5
S-alpha=	0.469 (0.016)				
150ND 4	0.676	0+		4	5.7 PS 3
150ND 5	0.720	6+		5	12.5 PS 5
150ND 6	0.851	2+		6	4.5 PS 14
150ND 7			0.853 1-	7	46 FS +7-6
150ND 8			0.935 3-	8	82 FS +12-10
150ND 9	1.062	2+		9	1.46 PS 21
150ND 10			1.129 5-	10	0.07 PS +20-4
150ND 11	1.130	8+		11	4.7 PS 5
150ND 12	1.138	4+		12	3.3 PS 3
150ND 13			1.182 LE 2	13	0.5 NS LT
150ND 14			1.201 3(+)	14	
150ND 15			1.250	15	
150ND 16			1.265	16	
150ND 17			1.284 (1-)	17	0.5 NS LT
150ND 18			1.308 (3,4)	18	
150ND 19			1.318 (1-)	19	
150ND 20	1.352	4+		20	2.0 PS 6
150ND 21			1.427 (2+)	21	
150ND 22			1.433 (7-)	22	
150ND 23			1.435 2-	23	0.6 PS +4-2
150ND 24			1.484 3-	24	0.35 PS +11-7
150ND 25			1.488 0:2	25	
150ND 26			1.490 1,2	26	
150ND 27			1.497 3,(2,4,5)	27	
150ND 28			1.517 4,5,6	28	
150ND 29			1.518 3-	29	
150ND 30			1.541 (6+)	30	
150ND 31			1.545 3-	31	
150ND 32			1.566 4-	32	0.33 PS +28-11
150ND 33			1.580 3-	33	
150ND 34	1.599	10+		34	2.59 PS 13
150ND 35			1.604	35	
150ND 36			1.645 5,(4)	36	
150ND 37			1.647 3,5,(2,4)	37	

150ND	38	1.648	4+					38	
150ND	39					1.649	1,(0,2)	39	
150ND	40			1.687	3-			40	
150ND	41					1.714		41	
150ND	42	1.738	0+					42	
150ND	43					1.754	(4+)	43	
150ND	44					1.765	0:3	44	
150ND	45					1.777	1:5	45	
150ND	46					1.782	(4+)	46	
150ND	47					1.800	(5-)	47	
150ND	48					1.830	(5-)	48	
150ND	49			1.864	3-			49	
150ND	50	1.885	4+					50	
150ND	51	1.907	4+					51	
150ND	52					1.911	0:4	52	
150ND	53	1.921	4+					53	
150ND	54					1.967		54	
150ND	55					1.976	1:5	55	
150ND	56					1.985	1:5	56	
150ND	57			1.988	3-			57	
150ND	58					1.994		58	
150ND	59					2.009	(1-,2,3-)	59	
150ND	60	2.033	4+					60	
150ND	61					2.050	(0+)	61	
150ND	62	2.069	2+					62	
150ND	63			2.077	3-			63	
150ND	64			2.090	3-			64	
150ND	65			2.109	3-			65	
150ND	66					2.119	(12+)	66	1.8 PS +2-3
150ND	67	2.129	4+					67	
150ND	68	2.174	4+					68	
150ND	69	2.194	2+					69	
150ND	70	2.206	4+					70	
150ND	71	2.223	2+					71	
150ND	72	2.242	2+					72	
150ND	73					2.269	1	73	0.006 EV 3
150ND	74					2.271	(3-)	74	
150ND	75			2.328	3-			75	
150ND	76	2.384	2+					76	
150ND	77					2.408	1	77	0.0017 EV 8
150ND	78					2.412	(3-)	78	
150ND	79			2.414	1-			79	0.026 EV 4
150ND	80	2.441	4+					80	
150ND	81					2.458	1	81	0.0056 EV 11
150ND	82					2.460	(4+)	82	

150ND	83	2.475	4+					83	
150ND	84					2.496	(1-)	84	0.018 EV 4
150ND	85	2.528	4+					85	
150ND	86					2.539		86	
150ND	87	2.563	4+					87	
150ND	88					2.571	(1)	88	0.008 EV 3
150ND	89					2.588	1,2+	89	0.0015 EV 8
150ND	90			2.596	5-			90	
150ND	91					2.620		91	
150ND	92	2.638	4+					92	
150ND	93	2.652	4+					93	
150ND	94	2.681	4+					94	
150ND	95	2.681	1+					95	0.012 EV 3
150ND	96					2.682	(14+)	96	
150ND	97	2.707	4+					97	
150ND	98	2.737	4+					98	
150ND	99	2.755	4+					99	
150ND	100	2.789	4+					100	
150ND	101			2.818	3-			101	
150ND	102			2.836	3-			102	
150ND	103					2.837		103	
150ND	104			2.880	3-			104	
150ND	105	2.895	4+					105	
150ND	106	2.895	1+					106	0.017 EV 3
150ND	107					2.920	2+,1	107	0.0024 EV 9
150ND	108	2.925	4+					108	
150ND	109	2.961	2+					109	
150ND	110					2.993	(1)	110	0.100 EV 11
150ND	111	3.039	4+					111	
150ND	112	3.058	1+					112	0.054 EV 6
150ND	113			3.069	3-			113	
150ND	114	3.085	4+					114	
150ND	115	3.096	1+					115	0.027 EV 6
150ND	116	3.103	1+					116	0.023 EV 4
150ND	117	3.112	2+					117	
150ND	118					3.157	(2+)	118	
150ND	119					3.160	1,2+	119	0.0023 EV 19
150ND	120					3.180	(2+)	120	
150ND	121					3.186	1,2+	121	0.0032 EV 14
150ND	122					3.221	(2+)	122	0.0075 EV 18
150ND	123					3.244	2+,1	123	0.0021 EV 9
150ND	124	3.252	4+					124	
150ND	125					3.280	(16+)	125	
150ND	126	3.301	4+					126	
150ND	127			3.315	3-			127	
150ND	128					3.327	1	128	0.0101 EV 22

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150ND 129 |                |                |   3.340     (4+)           129
150ND 130 |                |                |   3.342     1              130   0.015 EV  3
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150ND 131 |                |                |   3.375     1,2+           131   0.0021 EV 17
150ND 132 |                |                |   3.418     1              132   0.028 EV  6
150ND 133 |                |                |   3.423     1,2+           133   0.008 EV  4
150ND 134 |                |                |   3.553     (2+)           134   0.0083 EV 22
150ND 135 |                |                |   3.582     2+,1           135   0.0045 EV 18
150ND 136 |                |                |   3.590     1,2+           136   0.004 EV  23
150ND 137 |                |                |   3.606     1              137   0.008 EV  3
150ND 138 |                |                |   3.642     1              138   0.017 EV  6
150ND 139 |                |                |   3.653     1              139   0.059 EV  12
150ND 140 |                |                |   3.672     1              140   0.019 EV  5
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150ND 141 |                |                |   3.698     2+,1           141   0.0030 EV 13
150ND 142 |                |                |   3.706     1              142   0.043 EV  15
150ND 143 |                |                |   3.711     1              143   0.033 EV  8
150ND 144 |                |                |   3.720     1              144   0.025 EV  10
150ND 145 |                |                |   3.737     2+,1           145   0.0023 EV 14
150ND 146 |                |                |   3.751     1              146   0.042 EV  9
150ND 147 |                |                |   3.768     1              147   0.009 EV  3
150ND 148 |                |                |   3.860     1              148   0.007 EV  3
150ND 149 |                |                |   3.888     1,2+           149   0.0056 EV 23
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S-p    =   9.930 ( 0.010)-------------------------------------------------------------------------
S-n    =   7.376 ( 0.002)-------------------------------------------------------------------------
S-2p   =  17.859 ( 0.011)-------------------------------------------------------------------------
S-2n   =  12.415 ( 0.002)-------------------------------------------------------------------------
S-alpha=   0.469 ( 0.016)-------------------------------------------------------------------------

S+p       =  -6.995 ( 0.005)
S+n       =  -5.334 ( 0.002)
S+2p      = -15.661 ( 0.002)
S+2n      = -12.612 ( 0.025)
S+alpha   =  -1.200 ( 0.002)

gap p     =   2.934 ( 0.011)
gap n     =   2.041 ( 0.003)
gap 2p    =   2.199 ( 0.011)
gap 2n    =  -0.198 ( 0.025)
gap alpha =  -0.731 ( 0.017)
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