

^{135}Nd $Z = 60$ $N = 75$ adopted link ENSDF link

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

BE = 1118.901 (0.019) MeV

Qbeta+ = 4.722 (0.022) MeV

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

S-alpha=	-1.070	(0.038)	-----		
135ND 1				0.000 9/2(-)	1 12.4 M 6
135ND 2				0.065 (1/2+)	2 5.5 M ? 5
135ND 3				0.194 (3/2+)	3
135ND 4				0.199 (11/2-)	4 39 PS 5
135ND 5				0.273 (3/2,5/2)	5
135ND 6				0.328 (1/2+)	6
135ND 7				0.347 (1/2,3/2,5/2)	7
135ND 8				0.371 (5/2+)	8
135ND 9				0.464 (5/2+)	9
135ND 10				0.493 (7/2,9/2,11/2)	10

135ND 11				0.561 (13/2-)	11 5.4 PS 4
135ND 12				0.565	12
135ND 13				0.588 (3/2+,5/2+)	13
135ND 14				0.603 (3/2+,5/2+)	14
135ND 15				0.664	15
135ND 16				0.672	16
135ND 17				0.713 (7/2+)	17
135ND 18				0.717	18
135ND 19				0.744	19
135ND 20				0.793 (15/2-)	20 3.20 PS 17

135ND 21				0.826	21
135ND 22				1.110	22
135ND 23				1.177	23
135ND 24				1.182	24
135ND 25				1.215	25
135ND 26				1.270 (17/2-)	26
135ND 27				1.358	27
135ND 28				1.464	28
135ND 29				1.469	29
135ND 30				1.520 (19/2-)	30

135ND 31				1.777 (15/2+)	31
135ND 32				1.954 (17/2+)	32
135ND 33				2.105 (21/2-)	33
135ND 34				2.123	34
135ND 35				2.158 (19/2+)	35
135ND 36				2.210 (17/2)	36

135ND 37				2.259	(17/2)	37	
135ND 38				2.350	(21/2+)	38	
135ND 39				2.376	(23/2-)	39	
135ND 40				2.533	(23/2)	40	

135ND 41				2.558	(23/2+)	41	
135ND 42				2.704	(21/2+)	42	
135ND 43				2.776	(21/2+)	43	
135ND 44				2.795	(21/2+)	44	
135ND 45				2.801	(25/2+)	45	
135ND 46				2.820	(23/2-)	46	
135ND 47				2.941	(25/2-)	47	
135ND 48				3.102	(27/2+)	48	
135ND 49				3.111	(27/2-)	49	
135ND 50				3.325	(25/2+)	50	1.7 PS 6

135ND 51				3.341	(25/2+)	51	
135ND 52				3.346		52	
135ND 53				3.359	(29/2-)	53	0.693 PS 35
135ND 54				3.471	(29/2+)	54	
135ND 55				3.608	(27/2-)	55	
135ND 56				3.650	(31/2-)	56	0.52 PS 6
135ND 57				3.781	(29/2-)	57	
135ND 58				3.861	(31/2+)	58	
135ND 59				3.870	(29/2+)	59	1.0 PS 4
135ND 60				4.007	(31/2-)	60	1.012 PS 14

135ND 61				4.008	(33/2-)	61	0.305 PS 14
135ND 62				4.289	(33/2-)	62	0.60 PS 4
135ND 63				4.347	(33/2+)	63	
135ND 64				4.415	(35/2-)	64	0.194 PS 14
135ND 65				4.417		65	
135ND 66				4.472	(33/2+)	66	0.44 PS +26-8
135ND 67				4.599	(35/2-)	67	0.444 PS 35
135ND 68				4.772	(35/2+)	68	
135ND 69				4.853	(37/2-)	69	0.159 PS 14
135ND 70				4.971	(37/2-)	70	0.333 PS 21

S-p	=	4.975	(0.028)	-----			
135ND 71				5.148	(37/2+)	71	0.21 PS +14-6
135ND 72				5.286	(37/2+)	72	
135ND 73				5.315	(39/2-)	73	0.152 PS 14
135ND 74				5.411	(39/2-)	74	0.166 PS 28
135ND 75				5.734	(39/2+)	75	
135ND 76				5.787	(41/2-)	76	0.125 PS 14
135ND 77				5.896	(41/2+)	77	0.15 PS LT
135ND 78				5.923	(41/2-)	78	
135ND 79				6.281	(43/2-)	79	0.111 PS 14
135ND 80				6.713	(45/2+)	80	

135ND	81				6.799	(45/2-)	81
135ND	82				7.328	(47/2-)	82
135ND	83				7.594	(49/2+)	83
S-2p	=	8.373	(0.025)	-----			
135ND	84				8.540	(53/2+)	84
S-n	=	8.639	(0.022)	-----			
135ND	85				9.550	(57/2+)	85

S-p	=	4.975	(0.028)	-----			
S-n	=	8.639	(0.022)	-----			
S-2p	=	8.373	(0.025)	-----			
S-2n	=	20.024	(0.050)	-----			
S-alpha	=	-1.070	(0.038)	-----			

S+p	=	-2.245	(0.072)
S+n	=	-11.057	(0.022)
S+2p	=	-6.356	(0.034)
S+2n	=	-19.513	(0.022)
S+alpha	=	1.409	(0.022)

gap p	=	2.729	(0.077)
gap n	=	-2.418	(0.032)
gap 2p	=	2.017	(0.043)
gap 2n	=	0.511	(0.055)
gap alpha	=	0.339	(0.044)