

^{134}Nd $Z = 60$ $N = 74$ adopted link ENSDF link

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

BE = 1110.262 (0.012) MeV

Qbeta+ = 2.882 (0.024) MeV

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

S-alpha=	-1.352	(0.030)	-----		
134ND 1	0.000	0+			1 8.5 M 15
134ND 2	0.294	2+			2 64.4 PS 18
134ND 3				0.754 (2+)	3
134ND 4	0.789	4+			4 3.42 PS 7
134ND 5				1.089 (3+)	5
134ND 6				1.313 (4+)	6
134ND 7				1.384	7
134ND 8	1.420	6+			8 1.13 PS 4
134ND 9				1.605	9
134ND 10				1.669	10

134ND 11				1.671	11
134ND 12				1.698 (5+)	12
134ND 13				1.911 (6+)	13
134ND 14				1.956 (5-)	14
134ND 15				2.036	15
134ND 16	2.126	8+			16 0.71 PS 7
134ND 17				2.231	17
134ND 18				2.293 (8-)	18 410 US 30
134ND 19				2.341 (7-)	19
134ND 20				2.412 (6-)	20

134ND 21				2.467 (8+)	21 0.85 PS 21
134ND 22				2.720 (9-)	22
134ND 23				2.728 (8-)	23 17.2 PS 12
134ND 24	2.817	10+			24 0.49 PS 3
134ND 25				2.841 (9-)	25
134ND 26				3.052 (10+)	26 3.39 PS 16
134ND 27				3.164 (10+)	27
134ND 28				3.182 (10-)	28
134ND 29				3.200 (10-)	29 4.71 PS 14
134ND 30				3.437 (12+)	30 7.49 PS 21

134ND 31				3.453 (11-)	31
134ND 32	3.483	12+			32 0.43 PS 3
134ND 33				3.653 (11-)	33
134ND 34				3.863 (12-)	34
134ND 35				4.028 (14+)	35
134ND 36				4.130 (12-)	36

134ND	37				4.175	(13-)	37
134ND	38	4.184	14+				38
134ND	39				4.239	(12-)	39
134ND	40				4.372	(11-)	40

134ND	41				4.377	(11-)	41
134ND	42				4.513	(12-)	42
134ND	43				4.592	(13-)	43
134ND	44				4.608	(14-)	44
134ND	45				4.713	(13-)	45
134ND	46				4.777	(16+)	46
134ND	47	4.943	16+				47
134ND	48				4.948	(15-)	48
134ND	49				4.984	(14-)	49
134ND	50				4.993	(14-)	50

S-p	=	4.998 (0.017)		-----			
134ND	51				4.999	(14-)	51
134ND	52				5.200	(15-)	52
134ND	53				5.346	(16-)	53
134ND	54				5.361	(15-)	54
134ND	55				5.456	(16-)	55
134ND	56				5.629	(18+)	56
134ND	57				5.711	(17-)	57
134ND	58				5.769	(17-)	58
134ND	59	5.778	18+				59
134ND	60				5.789	(16-)	60

134ND	61				6.082	(18-)	61
134ND	62				6.138	(18-)	62
134ND	63				6.270	(17-)	63
134ND	64				6.300	(17-)	64
134ND	65				6.488	(19-)	65
134ND	66				6.531	(20+)	66
134ND	67				6.544	(19-)	67
134ND	68	6.711	20+				68
134ND	69				6.786	(18-)	69
134ND	70				6.831	(18+)	70

134ND	71				6.891	(20-)	71
134ND	72				6.936	(20-)	72
134ND	73				6.962	(19-)	73
134ND	74				6.966	(19-)	74
134ND	75				6.968	(19-)	75
134ND	76				7.292	(19-)	76
134ND	77				7.350	(21-)	77
134ND	78				7.358	(21-)	78
134ND	79				7.468	(22+)	79
134ND	80				7.558	(20+)	80

134ND	81				7.701	(21-)	81
134ND	82				7.745	(22+)	82
S-2p	=	7.756	(0.024)	-----			
134ND	83				7.805	(22-)	83
134ND	84				7.814	(22-)	84
134ND	85				8.323	(22+)	85
134ND	86				8.328	(23-)	86
134ND	87				8.331	(23-)	87
134ND	88				8.453	(24+)	88
134ND	89				8.510	(23-)	89
134ND	90				8.812	(24-)	90

134ND	91				8.870	(24+)	91
134ND	92				8.897	(24-)	92
134ND	93				9.144	(24+)	93
134ND	94				9.371	(25-)	94
134ND	95				9.386	(25-)	95
134ND	96				9.502	(26+)	96
134ND	97				9.511	(25-)	97
134ND	98				9.901	(26-)	98

S-p = 4.998 (0.017)-----
S-n = 11.385 (0.048)-----
S-2p = 7.756 (0.024)-----
S-2n = 20.363 (0.027)-----
S-alpha= -1.352 (0.030)-----

S+p = -1.705 (0.084)
S+n = -8.639 (0.022)
S+2p = -5.742 (0.017)
S+2n = -19.696 (0.017)
S+alpha = 1.724 (0.017)

gap p = 3.293 (0.085)
gap n = 2.747 (0.053)
gap 2p = 2.013 (0.029)
gap 2n = 0.668 (0.032)
gap alpha = 0.372 (0.035)