

^{132}Nd $Z = 60$ $N = 72$ adopted link ENSDF link

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

BE = 1089.899 (0.024) MeV

Qbeta+ = 3.802 (0.038) MeV

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

S-alpha=	-1.683	(0.037)	-----		
132ND 1	0.000	0+			1 94 S 8
132ND 2	0.213	2+			2 133 PS 8
132ND 3	0.611	4+			3 7.62 PS 28
132ND 4				0.824 (2+)	4
132ND 5	1.022	4+			5
132ND 6				1.118 (3+)	6
132ND 7	1.133	6+			7 1.59 PS 14
132ND 8				1.388 (4+)	8
132ND 9				1.633 (6+)	9
132ND 10	1.712	8+			10 1.04 PS 14

132ND 11				1.884 (5-)	11
132ND 12				2.179 (8+)	12
132ND 13				2.226 (7-)	13
132ND 14	2.312	10+			14 2 PS LT
132ND 15				2.346 (6-)	15
132ND 16				2.691 (9-)	16
132ND 17				2.698 (8-)	17
132ND 18				2.850 (10+)	18
132ND 19				2.948 (12+)	19
132ND 20				2.961 (9-)	20

132ND 21				3.110 (10-)	21
132ND 22				3.256 (11-)	22
132ND 23				3.288 (12+)	23
132ND 24				3.498 (11-)	24
132ND 25				3.634 (14+)	25
132ND 26			3.659 12-		26
132ND 27				3.848 (14+)	27
132ND 28				3.907 (13-)	28
132ND 29				4.164 (13-)	29
132ND 30				4.304 (14-)	30

132ND 31				4.373 (16+)	31
132ND 32				4.381 (16+)	32
S-p =	4.414	(0.053)	-----		
132ND 33				4.578 (16+)	33
132ND 34				4.620 (15-)	34
132ND 35				4.906 (15-)	35

132ND	36				4.996	(16-)	36
132ND	37				5.185	(18+)	37
132ND	38				5.368	(17-)	38
132ND	39				5.431	(18+)	39
132ND	40				5.670	(17-)	40

132ND	41				5.733	(18-)	41
132ND	42				6.068	(20+)	42
132ND	43				6.162	(18+)	43
132ND	44				6.165	(19-)	44
132ND	45				6.221	(17,18)	45
132ND	46				6.337	(18+)	46
132ND	47		6.379	20+			47
132ND	48				6.434	(19-)	48
132ND	49				6.556	(20-)	49
S-2p	=	6.581	(0.037)	-----			
132ND	50				6.587	(18,19)	50

132ND	51				6.991	(20+)	51
132ND	52				7.013	(22+)	52
132ND	53				7.015	(19,20)	53
132ND	54				7.053	(21-)	54
132ND	55				7.069	(20+)	55
132ND	56				7.231	(21-)	56
132ND	57				7.413	(22+)	57
132ND	58				7.435	(20,21)	58
132ND	59				7.487	(22-)	59
132ND	60				7.847	(22+)	60

132ND	61				7.877	(21,22)	61
132ND	62				8.015	(24+)	62
132ND	63				8.045	(23-)	63
132ND	64				8.080	(23-)	64
132ND	65				8.333	(22,23)	65
132ND	66				8.526	(24-)	66
132ND	67				8.527	(24+)	67
132ND	68		8.724	24+			68
132ND	69				8.806	(23,24)	69
132ND	70				8.981	(25-)	70

132ND	71				9.077	(26+)	71
132ND	72				9.146	(25-)	72
132ND	73				9.291	(24,25)	73
132ND	74				9.663	(26-)	74
132ND	75				9.667	(26+)	75
132ND	76				9.719	(26+)	76
132ND	77				9.798	(25,26)	77
132ND	78				9.948	(27-)	78

S-p = 4.414 (0.053)-----
S-n = 11.729 (0.037)-----
S-2p = 6.581 (0.037)-----
S-2n = 20.972 (0.037)-----
S-alpha= -1.683 (0.037)-----

S+p = -1.271 (0.056)
S+n = -8.978 (0.052)
S+2p = -4.479 (0.136)
S+2n = -20.363 (0.027)
S+alpha = 2.190 (0.027)

gap p = 3.144 (0.077)
gap n = 2.751 (0.064)
gap 2p = 2.102 (0.141)
gap 2n = 0.609 (0.046)
gap alpha = 0.507 (0.046)