

$^{130}\text{Nd}$        $Z = 60$        $N = 70$       adopted link      ENSDF link

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

BE = 1068.927 ( 0.028) MeV

Qbeta+ = 4.579 ( 0.070) MeV

	Energy T	J+	J-	J-other	T1/2
-----					
S-alpha=	-1.799	( 0.040)	-----		
130ND 1	0.000	0+			1 13 S 3
130ND 2	0.159	2+			2 0.60 NS 25
130ND 3	0.486	4+			3 28 PS LT
130ND 4				0.940 (6+)	4
130ND 5				0.946	5
130ND 6				0.952	6
130ND 7				1.033	7
130ND 8				1.185	8
130ND 9				1.487 (8+)	9
130ND 10				1.825 (5-)	10
-----					
130ND 11				2.100 (10+)	11
130ND 12				2.144 (7-)	12
130ND 13				2.294	13
130ND 14				2.587 (9-)	14
130ND 15				2.690 (8+)	15
130ND 16				2.764 (12+)	16
130ND 17				3.076 (10+)	17
130ND 18				3.133 (11-)	18
130ND 19				3.468 (14+)	19
130ND 20				3.578 (12+)	20
-----					
130ND 21				3.765 13(-)	21
130ND 22				3.858 (13-)	22
S-p =	4.112	( 0.041)	-----		
130ND 23				4.177 (14+)	23
130ND 24				4.212 (16+)	24
130ND 25				4.463 (15-)	25
130ND 26				4.585 (15-)	26
130ND 27				4.845 (16+)	27
130ND 28				5.021 (18+)	28
130ND 29				5.214 (17-)	29
130ND 30				5.435 (17-)	30
-----					
130ND 31				5.582 (18+)	31
S-2p =	5.640	( 0.040)	-----		
130ND 32				5.918 (20+)	32
130ND 33				6.021 (19-)	33
130ND 34				6.360 (19-)	34

130ND 35				6.406	(20+)	35
130ND 36				6.909	(22+)	36
130ND 37				6.910	(21-)	37
130ND 38				7.334	(22+)	38
130ND 39				7.340	(21-)	39
130ND 40				7.897	(23-)	40
-----						
130ND 41				7.994	(24+)	41
130ND 42				8.372	(24+)	42
130ND 43				8.375	(23-)	43
130ND 44				8.979	(25-)	44
130ND 45				9.167	(26+)	45
130ND 46				9.476	(25-)	46
130ND 47				9.518	(26+)	47

S-p = 4.112 ( 0.041)-----  
S-n = 12.288 ( 0.260)-----  
S-2p = 5.640 ( 0.040)-----  
S-2n = 22.271 ( 0.258)-----  
S-alpha= -1.799 ( 0.040)-----

S+p = -0.426 ( 0.263)  
S+n = -9.243 ( 0.039)  
S+2p = -3.177 ( 0.265)  
S+2n = -20.972 ( 0.037)  
S+alpha = 2.844 ( 0.137)

gap p = 3.685 ( 0.267)  
gap n = 3.045 ( 0.262)  
gap 2p = 2.463 ( 0.268)  
gap 2n = 1.298 ( 0.260)  
gap alpha = 1.045 ( 0.142)