

^{152}Nd $Z = 60$ $N = 92$ adopted link ENSDF link

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

BE = 1250.049 (0.024) MeV

Qbeta- = 1.105 (0.036) MeV

	Energy T	J+	J-	J-other	T1/2
152ND 1	0.000	0+			1 11.4 M 2
152ND 2	0.072	2+			2 4.18 NS 23
152ND 3	0.237	4+			3 316 PS 15
152ND 4	0.484	6+			4 53 PS 10
152ND 5	0.806	8+			5
152ND 6				0.868	6
152ND 7	1.139	0+			7
152ND 8				1.149 (1-)	8
152ND 9	1.196	10+			9
152ND 10				1.239 (3-)	10
152ND 11				1.251 (2+)	11
152ND 12				1.406 (5-)	12
152ND 13				1.475 (4+)	13
152ND 14				1.542 (2-)	14 132 PS 12
152ND 15				1.600 (3-)	15 12 PS 7
152ND 16	1.649	12+			16 2.1 PS
152ND 17				1.652	17
152ND 18				1.672 2+,3,4+	18
152ND 19				1.683 (4-)	19 64 PS 56
152ND 20				1.773 (4+,5)	20
152ND 21				1.783 (5-)	21
152ND 22				1.827 (3+)	22 42 PS 6
152ND 23				1.887 (3-,4-)	23
152ND 24				1.894 (3,4+)	24
152ND 25				1.898 (4+)	25 30 PS 10
152ND 26				1.905 (6-)	26
152ND 27				1.951 (3-,4,5)	27
152ND 28				1.958	28
152ND 29				1.988 (5-,6-)	29
152ND 30				1.991 (4+,5-)	30
152ND 31				2.038	31
152ND 32				2.040	32
152ND 33	2.159	14+			33 1.2 PS
S-alpha=	2.176 (0.027)				
152ND 34				2.178 (3-,4+)	34
152ND 35				2.203 (8-)	35
152ND 36				2.222 (6+,7,8+)	36

152ND 37	|		|		|	2.243	(7-)	37	63 NS	7
152ND 38	|		|		|	2.257	(3,4,5)	38		
152ND 39	|		|		|	2.391	(8-)	39		
152ND 40	|		|		|	2.421	(3,4-)	40		

152ND 41	|		|		|	2.497		41		
152ND 42	|		|		|	2.560	(9-)	42		
152ND 43	|		|		|	2.572	(10-)	43		
152ND 44	|		|		|	2.572	(10-)	44		
152ND 45	|		|		|	2.574	(3,4,5)	45		
152ND 46	|		|		|	2.581	(3,4+)	46		
152ND 47	|		|		|	2.613	(3,4,5)	47		
152ND 48	|		|		|	2.630		48		
152ND 49	|		|		|	2.702		49		
152ND 50	|		|		|	2.709		50		

152ND 51	|		|		|	2.723		51		
152ND 52	|	2.723	|	16+	|			52	0.7 PS	
152ND 53	|		|		|	2.746	(10-)	53		
152ND 54	|		|		|	2.854		54		
152ND 55	|		|		|	2.986		55		
152ND 56	|		|		|	3.005	(12-)	56		
152ND 57	|		|		|	3.104		57		
152ND 58	|		|		|	3.147		58		
152ND 59	|	3.338	|	18+	|			59		
152ND 60	|		|		|	3.351		60		

152ND 61	|	4.001	|	20+	|			61		

S-p	=	10.659	(	0.027)	-----					
S-n	=	7.278	(	0.024)	-----					
S-2p	=	19.881	(	0.027)	-----					
S-2n	=	12.612	(	0.024)	-----					
S-alpha	=	2.176	(	0.027)	-----					

S+p	=	-7.787	(	0.026)						
S+n	=	-5.252	(	0.025)						
S+2p	=	-16.884	(	0.025)						
S+2n	=	-11.573	(	0.024)						
S+alpha	=	-1.636	(	0.026)						

gap p	=	2.872	(	0.038)						
gap n	=	2.026	(	0.035)						
gap 2p	=	2.997	(	0.037)						
gap 2n	=	1.040	(	0.035)						
gap alpha	=	0.540	(	0.037)						