

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

Based on ensdf_240402 (Apr 2024), 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)