

^{161}Gd $Z = 64$ $N = 97$ adopted link ENSDF link

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

BE = 1314.918 (0.001) MeV

Qbeta- = 1.956 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2		
161GD 1			0.000	5/2-	1	3.66 M	5
161GD 2			0.072	7/2-	2		
161GD 3			0.164	9/2-	3		
161GD 4			0.276	11/2-	4		
161GD 5			0.314	3/2-	5		
161GD 6			0.355	1/2-	6		
161GD 7			0.395	3/2-	7		
161GD 8			0.438	7/2-	8		
161GD 9			0.438	5/2-	9		
161GD 10	0.510	9/2+			10		
161GD 11			0.529	7/2-	11		
161GD 12	0.585	11/2+			12		
161GD 13			0.604	9/2-	13		
161GD 14			0.645	11/2-	14		
161GD 15	0.681	13/2+			15		
161GD 16			0.753	11/2-	16		
161GD 17				0.804	17		
161GD 18			0.809	5/2-	18		
161GD 19				0.824	19		
161GD 20				0.834 (1/2,3/2)-	20		
161GD 21				0.851	21		
161GD 22			0.889	7/2-	22		
161GD 23				0.898	23		
161GD 24				0.925	24		
161GD 25				0.972	25		
161GD 26			0.994	9/2-	26		
161GD 27				1.036	27		
161GD 28				1.049	28		
161GD 29				1.097	29		
161GD 30			1.123	11/2-	30		
161GD 31				1.128	31		
161GD 32				1.177	32		
S-alpha=	1.253 (0.005)						
161GD 33				1.273	33		
161GD 34			1.311	1/2-	34		
161GD 35			1.338	3/2-	35		
161GD 36				1.380	36		

161GD 37				1.403	5/2-			37
161GD 38							1.408	38
161GD 39				1.466	7/2-			39
161GD 40		1.490			1/2+			40

161GD 41		1.501			3/2+			41
161GD 42							1.523	42
161GD 43							1.545	43
161GD 44		1.556			5/2+			44
161GD 45		1.591			7/2+			45
161GD 46							1.615	46
161GD 47							1.643	47
161GD 48							1.664	48
161GD 49							1.751	49
161GD 50							1.803	50

161GD 51							1.848	51
161GD 52							1.923	52

S-p = 9.302 (0.002)-----
S-n = 5.635 (0.002)-----
S-2p = 17.876 (0.006)-----
S-2n = 13.087 (0.002)-----
S-alpha= 1.253 (0.005)-----

S+p = -7.662 (0.003)
S+n = -6.846 (0.004)
S+2p = -15.453 (0.002)
S+2n = -12.025 (0.002)
S+alpha = -0.531 (0.002)

gap p = 1.639 (0.003)
gap n = -1.211 (0.005)
gap 2p = 2.423 (0.006)
gap 2n = 1.062 (0.002)
gap alpha = 0.722 (0.005)