

^{166}Gd $Z = 64$ $N = 102$ adopted link ENSDF link

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

BE = 1344.140 (0.002) MeV

Qbeta- = 3.438 (0.002) MeV

	Energy T	J+	J-	J-other	T1/2
166GD 1	0.000	0+			1 4.8 S 10
166GD 2				0.070 (2+)	2
166GD 3				0.231 (4+)	3
166GD 4				0.480 (6+)	4
166GD 5				1.240 (3+)	5
166GD 6				1.319 (4+)	6
166GD 7				1.350 (4+)	7
166GD 8				1.418 (5+)	8
166GD 9				1.455 (5+)	9
166GD 10				1.602 (6-)	10 950 NS 60

S-p = 10.931 (0.005)-----
 S-n = 5.916 (0.002)-----
 S-2p = 21.024 (0.004)-----
 S-2n = 10.820 (0.002)-----
 S-alpha= 2.417 (0.004)-----

S+p = -8.801 (0.002)
 S+n = -4.476 (0.005)
 S+2p = -18.765 (0.140)
 S+2n = -9.940 (0.336)
 S+alpha = -1.845 (0.170)

gap p = 2.130 (0.006)
 gap n = 1.440 (0.006)
 gap 2p = 2.258 (0.140)
 gap 2n = 0.880 (0.336)
 gap alpha = 0.572 (0.170)