

$^{165}\text{Gd}$        $Z = 64$        $N = 101$       adopted link      ENSDF link

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

BE = 1338.223 ( 0.001) MeV

Qbeta- = 4.063 ( 0.002) MeV

	Energy T	J+	J-	J-other	T1/2
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165GD	1			0.000	1 10.3 S 16

S-p = 10.583 ( 0.002)-----

S-n = 4.904 ( 0.002)-----

S-2p = 20.504 ( 0.007)-----

S-2n = 11.280 ( 0.002)-----

S-alpha= 2.279 ( 0.007)-----

S+p = -8.572 ( 0.002)

S+n = -5.916 ( 0.002)

S+2p = -17.964 ( 0.004)

S+2n = -10.392 ( 0.005)

S+alpha = -1.495 ( 0.301)

gap p = 2.011 ( 0.003)

gap n = -1.013 ( 0.003)

gap 2p = 2.541 ( 0.009)

gap 2n = 0.887 ( 0.006)

gap alpha = 0.784 ( 0.301)