

^{139}Gd $Z = 64$ $N = 75$ adopted link ENSDF link

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

BE = 1129.514 (-0.139) MeV

Qbeta+ = 7.727 (0.140) MeV

	Energy T	J+	J-	J-other	T1/2

S-alpha=	-2.761	(-0.208)			
139GD	1			0.000 (9/2-)	1 5.8 S 9

S-p = 3.210 (-0.142)-----

S-n = 10.058 (-0.196)-----

S-2p = 4.257 (-0.142)-----

S-2n = 22.554 (-0.307)-----

S-alpha= -2.761 (-0.208)-----

S+p = -0.100 (-0.812)

S+n = -12.183 (-0.142)

S+2p = -2.293 (-0.314)

S+2n = -21.696 (-0.140)

S+alpha = 3.077 (-0.140)

gap p = 3.110 (0.825)

gap n = -2.125 (0.242)

gap 2p = 1.964 (0.345)

gap 2n = 0.858 (0.338)

gap alpha = 0.316 (0.250)