

^{109}Zr $Z = 40$ $N = 69$ adopted link ENSDF link

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

BE = 894.236 (-0.545) MeV

Qbeta- = 10.934 (0.695) MeV

	Energy T	J+	J-	J-other	T1/2
109ZR	1			0.000 (5/2+)	1 56 MS 3

S-p = 16.304 (-0.847)-----
 S-n = 2.912 (-0.695)-----
 S-2p = 32.137 (-0.926)-----
 S-2n = 7.848 (-0.633)-----
 S-alpha= 9.980 (-0.757)-----

S+p = -13.843 (-1.000)
 S+n = -4.574 (-0.774)
 S+2p = -28.761 (-0.545)
 S+2n = -6.862 (-0.778)
 S+alpha = -9.266 (-0.642)

gap p = 2.461 (1.310)
 gap n = -1.662 (1.041)
 gap 2p = 3.376 (1.075)
 gap 2n = 0.986 (1.003)
 gap alpha = 0.714 (0.992)