

$^{104}\text{Zr}$        $Z = 40$        $N = 64$       adopted link      ENSDF link

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

BE = 873.841 ( 0.009) MeV

Qbeta- = 6.093 ( 0.009) MeV

	Energy T	J+	J-	J-other	T1/2
104ZR	1   0.000	0+			1 1.2 S 3
104ZR	2			0.139 (2+)	2 2.0 NS 3
104ZR	3			0.452 (4+)	3
104ZR	4			0.926 (6+)	4
104ZR	5			1.550 (8+)	5
104ZR	6			2.315 (10+)	6
104ZR	7			3.210 (12+)	7
104ZR	8			4.224 (14+)	8

S-p = 14.550 ( 0.015)-----

S-n = 5.980 ( 0.013)-----

S-2p = 28.136 ( 0.068)-----

S-2n = 10.279 ( 0.013)-----

S-alpha= 8.325 ( 0.012)-----

S+p = -11.487 ( 0.010)

S+n = -3.812 ( 0.015)

S+2p = -24.988 ( 0.013)

S+2n = -9.139 ( 0.212)

S+alpha = -7.457 ( 0.013)

gap p = 3.063 ( 0.018)

gap n = 2.168 ( 0.020)

gap 2p = 3.148 ( 0.069)

gap 2n = 1.140 ( 0.213)

gap alpha = 0.868 ( 0.018)