

^{109}Mo $Z = 42$ $N = 67$ adopted link ENSDF link

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

BE = 913.574 (0.011) MeV

Qbeta- = 7.624 (0.015) MeV

	Energy T	J+	J-	J-other	T1/2
109MO	1			0.000 (5/2+)	1 0.61 S +3-4
109MO	2			0.070 (1/2+)	2 0.194 US +76-49
109MO	3			0.144 (7/2+)	3
109MO	4			0.222 (7/2-)	4
109MO	5			0.333 (9/2-)	5
109MO	6			0.336 (9/2+)	6
109MO	7			0.472 (11/2-)	7
109MO	8			0.553 (11/2+)	8
109MO	9			0.730 (13/2-)	9
109MO	10			0.811 (13/2+)	10

109MO	11			0.886 (15/2-)	11
109MO	12			1.095 (15/2+)	12
109MO	13			1.287 (17/2-)	13
109MO	14			1.443 (19/2-)	14
109MO	15			2.138 (23/2-)	15

S-p = 14.403 (0.014)-----

S-n = 3.981 (0.014)-----

S-2p = 27.186 (0.321)-----

S-2n = 10.257 (0.014)-----

S-alpha= 7.626 (0.016)-----

S+p = -11.664 (0.015)

S+n = -5.948 (0.027)

S+2p = -24.704 (0.015)

S+2n = -9.423 (0.017)

S+alpha = -7.633 (0.040)

gap p = 2.739 (0.020)

gap n = -1.967 (0.030)

gap 2p = 2.482 (0.322)

gap 2n = 0.834 (0.022)

gap alpha = -0.007 (0.043)