

${}^8\text{Li}$        $Z = 3$        $N = 5$       adopted link    ENSDF link

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

BE      =      41.278 ( 0.000) MeV

Qbeta- =      16.004 ( 0.000) MeV

	Energy T	J+	J-	J-other	T1/2
8LI 1	0.000	1 2+			1 839.9 MS 9
8LI 2	0.981	1 1+			2 8.2 FS 23
S-n	= 2.033 ( 0.000)				
8LI 3	2.255	1 3+			3 32.3 KEV 57
8LI 4	3.210	1 1+			4 1000 KEV AP
8LI 5	5.400	1 1+			5 650 KEV AP
8LI 6				6.100 1 (3)	6 1000 KEV AP
S-alpha	= 6.100 ( 0.100)				
8LI 7	6.530	1 4+			7 35 KEV 15
8LI 8				7.100	8 400 KEV AP
8LI 9				9.000	9 6000 KEV AP
S-2n	= 9.284 ( 0.000)				
8LI 10	9.670	1+			10 1000 KEV AP

S-p      = 12.416 ( 0.008)-----  
S-n      = 2.033 ( 0.000)-----  
S-2p    = 35.508 ( 0.254)-----  
S-2n    = 9.284 ( 0.000)-----  
S-alpha = 6.100 ( 0.100)-----

S+p      = -16.886 ( 0.000)  
S+n      = -4.062 ( 0.000)  
S+2p    = -23.473 ( 0.000)  
S+2n    = -4.036 ( 0.013)  
S+alpha = -10.001 ( 0.001)

gap p    = -4.470 ( 0.008)  
gap n    = -2.030 ( 0.000)  
gap 2p   = 12.035 ( 0.254)  
gap 2n   = 5.248 ( 0.013)  
gap alpha = -3.901 ( 0.100)