

$^{218}\text{Rn}$        $Z = 86$        $N = 132$       adopted link      ENSDF link

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

BE = 1687.048 ( 0.002) MeV

	Energy T	J+	J-	J-other	T1/2
-----					
S-alpha=	-7.262	( 0.003)	-----		
218RN 1	0.000	0+			1 33.75 MS 15
218RN 2	0.324	2+			2 80 PS LT
218RN 3				0.653 (4+)	3
218RN 4				0.797 (3-)	4
218RN 5				0.840 (3-)	5
218RN 6				1.014 (6+)	6
218RN 7				1.026 (5-)	7
218RN 8				1.328 (7-)	8
218RN 9				1.393 (8+)	9
218RN 10				1.694 (9-)	10
-----					
218RN 11				1.775 (10+)	11
218RN 12				2.071 (11-)	12
218RN 13				2.169 (12+)	13
218RN 14				2.458 (13-)	14
218RN 15				2.577 (14+)	15
218RN 16				2.853 (15-)	16
218RN 17				3.002 (16+)	17
218RN 18				3.265 (17-)	18
218RN 19				3.438 (18+)	19
218RN 20				3.683 (19-)	20
-----					
218RN 21				3.859 (20+)	21
218RN 22				4.287 (22+)	22
218RN 23				4.725 (24+)	23
218RN 24				5.168 (26+)	24

S-p = 6.466 ( 0.006)-----  
 S-n = 6.512 ( 0.005)-----  
 S-2p = 11.143 ( 0.003)-----  
 S-2n = 11.179 ( 0.006)-----  
 S-alpha= -7.262 ( 0.003)-----

S+p = -3.889 ( 0.007)  
 S+n = -4.459 ( 0.003)  
 S+2p = -9.523 ( 0.008)  
 S+2n = -10.748 ( 0.003)  
 S+alpha = 6.678 ( 0.005)

gap p = 2.577 ( 0.009)  
gap n = 2.053 ( 0.006)  
gap 2p = 1.620 ( 0.008)  
gap 2n = 0.431 ( 0.007)  
gap alpha = -0.585 ( 0.006)