

$^{205}\text{Rn}$        $Z = 86$        $N = 119$       adopted link      ENSDF link

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

BE = 1595.048 ( 0.005) MeV

Qbeta+ = 5.275 ( 0.013) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-6.387 ( 0.007)	-----			
205RN 1			0.000	5/2-	1 170 S 4
205RN 2				0.031 (3/2-)	2
205RN 3				0.388 (7/2-)	3
205RN 4				0.545 (7/2-,9/2-)	4
205RN 5				0.596 (7/2-)	5
205RN 6				0.633 (7/2-)	6
205RN 7				0.657 (13/2+)	7 10 S GT
205RN 8				1.049 (7/2-,9/2-,11/2-)	8)
205RN 9				1.157 (17/2+)	9
205RN 10				1.647 (21/2+)	10
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205RN 11				2.265 (25/2+)	11
205RN 12				2.337 (21/2+)	12
205RN 13				2.394 (23/2+)	13
205RN 14				2.454 (23/2+)	14
205RN 15				2.624 (25/2+)	15
205RN 16				2.641 (25/2+)	16
205RN 17				2.782 (27/2+)	17
205RN 18				2.804 (27/2+)	18
205RN 19				2.903 (29/2+)	19
205RN 20				2.934 (29/2+)	20
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S-p	= 3.123 ( 0.023)	-----			
205RN 21				3.151 (31/2+)	21
205RN 22				3.244 (31/2+)	22
205RN 23				3.499 (33/2+)	23
205RN 24				3.519 (33/2+)	24
205RN 25				3.821 (35/2+)	25
205RN 26				4.109 (37/2+)	26
205RN 27				4.188 (37/2+)	27
205RN 28				4.247 (37/2+)	28
205RN 29				4.311 (39/2+)	29
205RN 30				4.716 (41/2+)	30
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S-p	= 3.123 ( 0.023)	-----			
S-n	= 7.811 ( 0.009)	-----			
S-2p	= 4.977 ( 0.007)	-----			

S-2n = 17.668 ( 0.008)-----  
S-alpha= -6.387 ( 0.007)-----

S+p = -0.826 ( 0.028)  
S+n = -9.494 ( 0.010)  
S+2p = -3.354 ( 0.059)  
S+2n = -17.068 ( 0.007)  
S+alpha = 7.143 ( 0.008)

gap p = 2.297 ( 0.037)  
gap n = -1.683 ( 0.013)  
gap 2p = 1.623 ( 0.059)  
gap 2n = 0.601 ( 0.010)  
gap alpha = 0.756 ( 0.010)