

$^{215}\text{Fr}$        $Z = 87$        $N = 128$       adopted link      ENSDF link

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

BE = 1666.951 ( 0.007) MeV

Qbeta+ = 1.487 ( 0.009) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-9.540 ( 0.008)				
215FR 1			0.000 9/2-		1 86 NS 5
215FR 2				0.670 (13/2)-	2
215FR 3				0.700 (11/2)-	3
215FR 4				0.835 (13/2)+	4
215FR 5				1.122 (17/2)-	5
215FR 6				1.149 (15/2)-	6
215FR 7				1.440 (19/2)-	7 4 NS 2
215FR 8				1.457 (21/2)-	8
215FR 9				1.573 (23/2)-	9 3.5 NS 14
215FR 10				1.681 (25/2-)	10
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215FR 11				1.814 (27/2)-	11 2.1 NS 14
215FR 12				2.016 (29/2)+	12 4.7 NS 14
215FR 13				2.251 (33/2)+	13 5.3 NS 14
S-p	= 2.651 ( 0.012)				
215FR 14				2.807 (35/2)-	14
215FR 15				2.900 (35/2-)	15
215FR 16				3.014 (37/2-)	16
215FR 17				3.069 (39/2)-	17 14.6 NS 14
215FR 18				3.207 (41/2-)	18
215FR 19				3.409 (41/2)	19
215FR 20				3.417 (45/2-)	20
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215FR 21				3.462 (47/2+)	21 22.9 NS 21

S-p = 2.651 ( 0.012)-----  
S-n = 6.795 ( 0.011)-----  
S-2p = 7.680 ( 0.009)-----  
S-2n = 12.270 ( 0.008)-----  
S-alpha= -9.540 ( 0.008)-----

S+p = -4.316 ( 0.011)  
S+n = -5.418 ( 0.008)  
S+2p = -6.194 ( 0.013)  
S+2n = -12.146 ( 0.010)  
S+alpha = 8.826 ( 0.052)

gap p = -1.665 ( 0.016)

gap n = 1.376 ( 0.014)  
gap 2p = 1.487 ( 0.016)  
gap 2n = 0.124 ( 0.013)  
gap alpha = -0.714 ( 0.053)