

$^{205}\text{Fr}$        $Z = 87$        $N = 118$       adopted link      ENSDF link

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

BE = 1587.866 ( 0.008) MeV

Qbeta+ = 6.400 ( 0.009) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-7.055 ( 0.011)				
205FR 1			0.000	9/2-	1 3.90 S 7
205FR 2				0.209 (7/2-)	2
205FR 3				0.444 (5/2-)	3
205FR 4			0.517	13/2-	4
205FR 5	0.544	13/2+			5 80 NS 20
205FR 6				0.609 (1/2+)	6 1.15 MS 4
S-p =	0.629 ( 0.011)				
205FR 7				0.763 (5/2+)	7
205FR 8				0.840 (11/2-)	8
205FR 9	1.021	15/2+			9
205FR 10			1.097	17/2-	10
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205FR 11				1.170	11
205FR 12				1.176 (9/2+)	12
205FR 13	1.197	17/2+			13
205FR 14				1.589 (17/2+)	14
205FR 15				1.593	15
205FR 16	1.644	19/2+			16
205FR 17			1.762	21/2-	17
205FR 18	1.828	21/2+			18
205FR 19				1.873 (19/2+)	19
205FR 20				1.894 (21/2+)	20
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205FR 21				2.037 (23/2-)	21
205FR 22				2.040	22
205FR 23				2.080	23
205FR 24				2.139 (21/2+)	24
205FR 25	2.185	23/2+			25
205FR 26				2.190 (21/2+)	26
205FR 27				2.348 (27/2+)	27
205FR 28				2.442 (23/2+)	28
205FR 29				2.481 (25/2-)	29
205FR 30				2.643 (27/2-)	30
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205FR 31				2.644 (29/2+)	31
205FR 32				2.831 (25/2+)	32
205FR 33				2.923 (27/2+)	33
205FR 34				2.997 (31/2+)	34
205FR 35				3.082 (33/2+)	35

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S-p    =  0.629 ( 0.011)-----
S-n    =  9.989 ( 0.026)-----
S-2p   =  3.725 ( 0.013)-----
S-2n   = 18.329 ( 0.010)-----
S-alpha= -7.055 ( 0.011)-----

S+p    = -2.414 ( 0.020)
S+n    = -8.008 ( 0.029)
S+2p   = -2.122 ( 0.057)
S+2n   = -17.682 ( 0.019)
S+alpha =  7.730 ( 0.056)

gap p   = -1.785 ( 0.022)
gap n   =  1.980 ( 0.039)
gap 2p  =  1.603 ( 0.058)
gap 2n  =  0.647 ( 0.022)
gap alpha =  0.675 ( 0.058)
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