

$^{179}\text{Re}$        $Z = 75$        $N = 104$       adopted link      ENSDF link

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

BE = 1432.674 ( 0.025) MeV

Qbeta+ = 2.711 ( 0.029) MeV

	Energy T	J+	J-	J-other	T1/2	
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S-alpha=	-3.399	( 0.037)	-----			
179RE 1	0.000	5/2+			1 19.5 M	1
179RE 2				0.065 (5/2-)	2 95 US	25
179RE 3				0.088 (9/2-)	3	
179RE 4				0.116 (9/2-)	4	
179RE 5				0.118 (1/2-)	5	
179RE 6				0.124 (7/2+)	6	
179RE 7				0.253 (11/2-)	7	
179RE 8				0.280 (9/2+)	8	
179RE 9				0.284 (3/2-)	9	
179RE 10				0.284 (13/2-)	10	
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179RE 11				0.447 (13/2-)	11 8.1 PS	6
179RE 12				0.466 (11/2+)	12 11.4 PS	+8-11
179RE 13				0.570 (17/2-)	13 18.7 PS	+4-6
179RE 14				0.594 (1/2+,3/2,5/2-)	14	
179RE 15				0.665 (15/2-)	15 4.9 PS	+4-5
179RE 16				0.677 (13/2+)	16 4.4 PS	3
179RE 17				0.817 (1/2-,3/2,5/2-)	17	
179RE 18				0.818	18	
179RE 19				0.878 (1/2,3/2,5/2-)	19	
179RE 20				0.906 (17/2-)	20 2.36 PS	+21-28
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179RE 21				0.914 (15/2+)	21 3.12 PS	21
179RE 22				0.928 (15/2-)	22	
179RE 23				0.962 (21/2-)	23 3.3 PS	+3-4
179RE 24				1.164 (19/2-)	24 1.66 PS	14
179RE 25				1.166 (17/2+)	25 1.59 PS	7
179RE 26				1.202 (21/2)	26 21 NS	AP
179RE 27				1.209 (15/2-)	27	
179RE 28				1.298 (15/2-)	28	
179RE 29				1.315 (19/2+)	29	
179RE 30				1.330 (19/2-)	30	
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179RE 31				1.429 (3/2)	31	
179RE 32				1.437 (19/2+)	32 1.2 PS	LT
179RE 33				1.441 (21/2-)	33 1.32 PS	+21-35
179RE 34				1.446 (25/2-)	34 1.46 PS	+21-28
179RE 35				1.449 (3/2)	35	
179RE 36				1.479 (23/2)	36	

179RE	37				1.491	(17/2-)	37
179RE	38				1.546	(17/2-)	38
179RE	39				1.562		39
179RE	40				1.618	(17/2-)	40
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179RE	41				1.637	(21/2+)	41
179RE	42				1.714	(21/2+)	42 0.90 PS LT
179RE	43				1.724	(23/2-)	43
179RE	44				1.772	(19/2-)	44

S-p = 3.466 ( 0.029)-----  
 S-n = 9.002 ( 0.037)-----  
 S-2p = 9.447 ( 0.025)-----  
 S-2n = 16.458 ( 0.037)-----  
 S-alpha= -3.399 ( 0.037)-----

S+p = -5.061 ( 0.029)  
 S+n = -7.324 ( 0.033)  
 S+2p = -7.457 ( 0.025)  
 S+2n = -16.076 ( 0.028)  
 S+alpha = 3.957 ( 0.035)

gap p = -1.595 ( 0.041)  
 gap n = 1.678 ( 0.050)  
 gap 2p = 1.991 ( 0.035)  
 gap 2n = 0.382 ( 0.046)  
 gap alpha = 0.558 ( 0.051)