

$^{181}\text{W}$        $Z = 74$        $N = 107$       adopted link      ENSDF link

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

BE = 1451.249 ( 0.001) MeV

Qbeta+ = 0.205 ( 0.002) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-2.222	( 0.002)	-----		
181W 1	0.000	9/2+			1 121.2 D 2
181W 2	0.113	11/2+			2
181W 3	0.251	13/2+			3
181W 4			0.366	5/2-	4 14.59 US 15
181W 5			0.385	1/2-	5
181W 6			0.409	7/2-	6
181W 7	0.414	15/2+			7
181W 8			0.450	3/2-	8
181W 9			0.458	1/2-	9
181W 10			0.476	7/2-	10
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181W 11			0.488	5/2-	11
181W 12			0.529	9/2-	12
181W 13			0.529	3/2-	13
181W 14			0.560	5/2-	14
181W 15	0.599	17/2+			15
181W 16			0.609	9/2-	16
181W 17			0.643	7/2-	17
181W 18			0.662	7/2-	18
181W 19			0.675	11/2-	19
181W 20				0.715 (7/2-)	20
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181W 21			0.726	3/2-	21
181W 22				0.762 (11/2-)	22
181W 23				0.784	23
181W 24				0.805 (9/2-)	24
181W 25			0.808	5/2-	25
181W 26	0.814	19/2+			26
181W 27			0.848	13/2-	27
181W 28				0.937 (7/2-)	28
181W 29	0.953	7/2+			29
181W 30				0.975 (11/2-)	30
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181W 31				0.993 (9/2)+	31
181W 32				1.009 (5/2,7/2)+	32
181W 33	1.039	21/2+			33
181W 34			1.046	15/2-	34
181W 35				1.084	35
181W 36				1.087 (7/2)+	36

181W	37						1.124	(13/2+)		37
181W	38				1.188	3/2-				38
181W	39						1.193	(5/2,7/2)-		39
181W	40				1.249	5/2-				40
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181W	41						1.262			41
181W	42				1.268	17/2-				42
181W	43		1.272	5/2+						43
181W	44						1.274	5/2-,7/2-		44
181W	45		1.310	23/2+						45
181W	46						1.318			46
181W	47						1.330	5/2-,7/2-		47
181W	48						1.355	5/2-,7/2-		48
181W	49		1.366	3/2+						49
181W	50						1.369	5/2-,7/2-		50
-----										
181W	51						1.378	3/2+,5/2+		51
181W	52						1.423	5/2-,7/2-		52
181W	53						1.441	5/2+,7/2+		53
181W	54						1.469	(5/2)+		54
181W	55		1.498	7/2+						55
181W	56						1.502			56
181W	57				1.513	19/2-				57
181W	58						1.518			58
181W	59						1.538	(7/2+)		59
181W	60		1.560	25/2+						60
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181W	61						1.652			61
181W	62		1.653	21/2+						62
181W	63						1.667			63
181W	64						1.712			64
181W	65						1.745	(23/2-)		65
181W	66				1.777	21/2-				66
181W	67		1.864	1/2+						67
181W	68						1.892			68
181W	69		1.899	27/2+						69
181W	70						1.945			70
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181W	71						1.995	(25/2-)		71
181W	72						2.015			72
181W	73						2.034			73
181W	74						2.062			74
181W	75						2.067			75
181W	76		2.156	29/2+						76
181W	77						2.271	(27/2-)		77
181W	78						2.570	(29/2-)		78
181W	79		2.577	31/2+						79
181W	80		2.824	33/2+						80
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181W	81						2.891	(31/2-)		81

181W	82					3.232	(33/2-)		82		
181W	83		3.565		37/2+				83		
181W	84					3.593	(35/2-)		84		
181W	85					3.944	37/2		85	20 NS	AP
181W	86		4.374		41/2+				86		
181W	87		5.240		45/2+				87		
181W	88		6.140		49/2+				88		
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S-p	=	6.589	( 0.003)	-----							
S-n	=	6.669	( 0.002)	-----							
181W	89		7.069		53/2+				89		
181W	90		8.021		57/2+				90		
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181W	91					8.041	57/2		91	3 NS	LT
181W	92					8.655			92		

S-p = 6.589 ( 0.003)-----  
 S-n = 6.669 ( 0.002)-----  
 S-2p = 12.349 ( 0.002)-----  
 S-2n = 15.081 ( 0.015)-----  
 S-alpha= -2.222 ( 0.002)-----

S+p = -4.501 ( 0.102)  
 S+n = -8.084 ( 0.002)  
 S+2p = -10.008 ( 0.050)  
 S+2n = -14.274 ( 0.002)  
 S+alpha = 3.003 ( 0.002)

gap p = 2.088 ( 0.102)  
 gap n = -1.415 ( 0.003)  
 gap 2p = 2.341 ( 0.050)  
 gap 2n = 0.807 ( 0.015)  
 gap alpha = 0.781 ( 0.003)