

$^{171}\text{W}$        $Z = 74$        $N = 97$       adopted link      ENSDF link

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

BE = 1369.388 ( 0.028) MeV

Qbeta+ = 4.634 ( 0.040) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-3.957 ( 0.040)				
171W	1			0.000 (5/2-)	1 2.38 M 4
171W	2			0.102 (7/2-)	2
171W	3			0.133 (3/2-)	3
171W	4			0.183 (11/2+)	4
171W	5			0.183 (13/2+)	5
171W	6			0.208 (5/2+)	6
171W	7			0.233 (9/2-)	7
171W	8			0.389 (11/2-)	8
171W	9			0.391 (15/2+)	9
171W	10			0.395 (17/2+)	10
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171W	11			0.548 (13/2-)	11
171W	12			0.568 (7/2-)	12
171W	13			0.736 (15/2-)	13
171W	14			0.739 (21/2+)	14
171W	15			0.739 (19/2+)	15
171W	16			0.915 (17/2-)	16
171W	17			1.066 (7/2-)	17
171W	18			1.131 (19/2-)	18
171W	19			1.189 (25/2+)	19
171W	20			1.197 (23/2+)	20
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171W	21			1.332 (21/2-)	21
171W	22			1.577 (23/2-)	22
171W	23			1.722 (29/2+)	23
171W	24			1.738 (27/2+)	24
171W	25			1.785 (25/2-)	25
171W	26			2.070 (27/2-)	26
171W	27			2.084 (25/2-)	27
171W	28			2.250 (29/2-)	28
171W	29			2.311 (33/2+)	29
171W	30			2.343 (31/2+)	30
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171W	31			2.461 (29/2-)	31
171W	32			2.601 (31/2-)	32
171W	33			2.616 (31/2-)	33
171W	34			2.737 (33/2-)	34
171W	35			2.872 (33/2-)	35
171W	36			2.935 (37/2+)	36

171W	37				2.999	(35/2+)	37
171W	38				3.069	(35/2-)	38
171W	39				3.188	(35/2-)	39
171W	40				3.274	(37/2-)	40
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171W	41				3.376	(37/2-)	41
171W	42				3.577	(41/2+)	42
171W	43				3.618	(39/2-)	43
171W	44				3.698	(39/2+)	44
171W	45				3.810	(39/2-)	45
171W	46				3.875	(41/2-)	46
171W	47				3.955	(41/2)	47
171W	48				3.968	(41/2-)	48
S-p	=	4.237	( 0.040)	-----			
171W	49				4.248	(43/2-)	49
171W	50				4.251	(45/2+)	50
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171W	51				4.429	(43/2+)	51
171W	52				4.479	(43/2-)	52
171W	53				4.543	(45/2-)	53
171W	54				4.631	(45/2-)	54
171W	55				4.649	(45/2)	55
171W	56				4.948	(47/2-)	56
171W	57				4.983	(49/2+)	57
171W	58				5.181	(47/2+)	58
171W	59				5.195	(47/2-)	59
171W	60				5.273	(49/2-)	60
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171W	61				5.352	(49/2-)	61
171W	62				5.436	(49/2)	62
171W	63				5.707	(51/2-)	63
171W	64				5.785	(53/2+)	64
171W	65				5.957	(51/2+)	65
171W	66				5.959	(51/2-)	66
171W	67				6.057	(53/2-)	67
171W	68				6.128	(53/2-)	68
171W	69				6.527	(55/2-)	69
171W	70				6.657	(57/2+)	70
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171W	71				6.773	(55/2-)	71
171W	72				6.774	(55/2+)	72
171W	73				6.894	(57/2-)	73
S-2p	=	6.947	( 0.040)	-----			
171W	74				6.968	(57/2-)	74
171W	75				7.412	(59/2-)	75
171W	76				7.595	(61/2+)	76
171W	77				7.650	(59/2-)	77
171W	78				7.792	(61/2-)	78
S-n	=	7.866	( 0.031)	-----			
171W	79				7.877	(61/2-)	79

171W	80				8.365	(63/2-)	80
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171W	81				8.590	(65/2+)	81
171W	82				8.755	(65/2-)	82
171W	83				9.777	(69/2-)	83

S-p = 4.237 ( 0.040)-----  
 S-n = 7.866 ( 0.031)-----  
 S-2p = 6.947 ( 0.040)-----  
 S-2n = 18.311 ( 0.032)-----  
 S-alpha= -3.957 ( 0.040)-----

S+p = -1.770 ( 0.045)  
 S+n = -10.083 ( 0.040)  
 S+2p = -4.930 ( 0.032)  
 S+2n = -17.784 ( 0.040)  
 S+alpha = 4.556 ( 0.030)

gap p = 2.468 ( 0.060)  
 gap n = -2.216 ( 0.050)  
 gap 2p = 2.017 ( 0.051)  
 gap 2n = 0.527 ( 0.051)  
 gap alpha = 0.599 ( 0.050)