

$^{191}\text{Au}$        $Z = 79$        $N = 112$       adopted link      ENSDF link

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

BE = 1513.614 ( 0.005) MeV

Qbeta+ = 1.900 ( 0.006) MeV

	Energy T	J+	J-	J-other	T1/2
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S-alpha=	-3.327	( 0.028)	-----		
191AU 1	0.000	3/2+			1 3.18 H 8
191AU 2				0.011 (1/2+)	2 15.5 NS 15
191AU 3				0.208 (3/2+)	3
191AU 4				0.252 (5/2+)	4
191AU 5				0.266 (11/2-)	5 0.92 S 11
191AU 6				0.331 (5/2+)	6
191AU 7				0.491 (7/2-)	7
191AU 8				0.521 (5/2+)	8
191AU 9				0.540 (9/2-)	9 10 NS 2
191AU 10				0.663 (7/2+)	10
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191AU 11				0.686 (15/2-)	11
191AU 12				0.789 (9/2+)	12
191AU 13				0.845 (13/2-)	13
191AU 14				0.877 (9/2-)	14
191AU 15				0.897 (11/2-)	15
191AU 16				0.911 (13/2-)	16
191AU 17				1.066 (3/2-)	17
191AU 18				1.132 (11/2+)	18
191AU 19				1.269 (11/2-)	19
191AU 20				1.341	20
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191AU 21				1.351 (15/2-)	21
191AU 22				1.356	22
191AU 23				1.376 (17/2-)	23
191AU 24				1.394	24
191AU 25				1.411 (19/2-)	25
191AU 26				1.431 (17/2-)	26
191AU 27				1.460 (13/2+)	27
191AU 28				1.482	28
191AU 29				1.549	29
191AU 30				1.630	30
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191AU 31				1.991 (21/2+)	31 0.3 NS LT
191AU 32				2.024	32
191AU 33				2.032 (21/2-)	33
191AU 34				2.041	34
191AU 35				2.079 (23/2+)	35
191AU 36				2.130	36

191AU 37			2.159	(25/2+)	37	0.96 NS	10
191AU 38			2.174		38		
191AU 39			2.187	(23/2-)	39		
191AU 40			2.199		40		
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191AU 41			2.218		41		
191AU 42			2.235		42		
191AU 43			2.287	(25/2+)	43		
191AU 44			2.348		44		
191AU 45			2.423	(27/2+)	45	0.2 NS	LT
191AU 46			2.446	(27/2-)	46	0.89 NS	9
191AU 47			2.490	(31/2+)	47	402 NS	20
191AU 48			2.503	(31/2-)	48	6.1 NS	5
191AU 49			2.671	(29/2+)	49		
191AU 50			2.687		50		
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191AU 51			2.748		51		
191AU 52			2.804	(33/2-)	52	0.4 NS	LT
191AU 53			2.881	(35/2-)	53		
191AU 54			2.925		54		
191AU 55			2.998	(35/2+)	55		
191AU 56			3.008	(35/2-)	56		
191AU 57			3.147		57		
191AU 58			3.203	(35/2-)	58	0.3 NS	LT
191AU 59			3.253		59		
191AU 60			3.257	(33/2+)	60		
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191AU 61			3.280	(37/2-)	61		
191AU 62			3.373	(39/2-)	62		
191AU 63			3.428		63		
191AU 64			3.494	(37/2+)	64		
191AU 65			3.656		65		
191AU 66			3.737	(39/2-)	66		
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S-p	=	3.780 ( 0.005)					
191AU 67			3.788	(39/2-)	67		
191AU 68			3.811	(39/2+)	68		
191AU 69			3.821		69		
191AU 70			3.905	(37/2+)	70		
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191AU 71			4.032	(43/2-)	71		
191AU 72			4.062		72		
191AU 73			4.114	(43/2-)	73		
191AU 74			4.155	(39/2)	74		
191AU 75			4.181	(41/2+)	75		
191AU 76			4.275	(41/2+)	76		
191AU 77			4.289	(41/2+)	77		
191AU 78			4.405	(43/2-)	78		
191AU 79			4.406	(41/2)	79		
191AU 80			4.420	(43/2+)	80		
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191AU 81			4.453	(43/2+)	81
191AU 82			4.478		82
191AU 83			4.479	(45/2-)	83
191AU 84			4.683	(43/2)	84
191AU 85			4.688	(47/2+)	85
191AU 86			4.747	(47/2-)	86
191AU 87			4.766	(47/2+)	87
191AU 88			4.818	(47/2-)	88
191AU 89			4.942	(47/2-)	89
191AU 90			4.952	(47/2-)	90
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191AU 91			5.082	(47/2-)	91
191AU 92			5.141	(49/2+)	92
191AU 93			5.170		93
191AU 94			5.202	(51/2+)	94
191AU 95			5.243	(49/2-)	95
191AU 96			5.351	(51/2-)	96
191AU 97			5.394	(53/2+)	97
191AU 98			5.397	(51/2+)	98
191AU 99			5.455	(51/2-)	99
191AU 100			5.580	(51/2)	100
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191AU 101			5.645	(51/2-)	101
191AU 102			5.763	(51/2-)	102
191AU 103			5.830		103
191AU 104			5.998	(57/2+)	104
191AU 105			6.013	(55/2+)	105
191AU 106			6.027	(55/2+)	106
191AU 107			6.033	(55/2-)	107
191AU 108			6.034	(55/2+)	108
191AU 109			6.097	(53/2-)	109
191AU 110			6.211	(55/2-)	110
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191AU 111			6.284	(55/2-)	111
191AU 112			6.384	(55/2-)	112
191AU 113			6.540		113
191AU 114			6.623		114
191AU 115			6.652	(57/2-)	115
191AU 116			6.659	(59/2-)	116
191AU 117			6.829		117
191AU 118			6.881	(59/2-)	118
191AU 119			6.900	(61/2+)	119
191AU 120			6.945	(59/2-)	120
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191AU 121			7.006	(61/2-)	121
191AU 122			7.056	(63/2-)	122
191AU 123			7.276		123
191AU 124			7.565	(65/2-)	124
191AU 125			7.752		125
191AU 126			7.787	(63/2-)	126

191AU 127			7.808	(65/2+)	127
191AU 128			7.829	(63/2-)	128
191AU 129			7.884	(67/2-)	129
191AU 130			8.143		130
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191AU 131			8.244		131
191AU 132			8.485	(69/2-)	132
191AU 133			8.546	(69/2+)	133
191AU 134			8.903	(71/2-)	134
S-n	=	9.036 ( 0.006)	-----		
191AU 135			9.093	(71/2-)	135
191AU 136			9.526	(73/2+)	136
S-2p	=	9.926 ( 0.014)	-----		
191AU 137			9.946	(75/2-)	137
S-p	=	3.780 ( 0.005)	-----		
S-n	=	9.036 ( 0.006)	-----		
S-2p	=	9.926 ( 0.014)	-----		
S-2n	=	16.359 ( 0.021)	-----		
S-alpha	=	-3.327 ( 0.028)	-----		
S+p	=	-5.502 ( 0.016)			
S+n	=	-7.046 ( 0.017)			
S+2p	=	-8.257 ( 0.008)			
S+2n	=	-15.750 ( 0.010)			
S+alpha	=	3.218 ( 0.012)			
gap p	=	-1.722 ( 0.017)			
gap n	=	1.990 ( 0.018)			
gap 2p	=	1.669 ( 0.016)			
gap 2n	=	0.609 ( 0.023)			
gap alpha	=	-0.109 ( 0.031)			