

$^{195}\text{Au}$        $Z = 79$        $N = 116$       adopted link      ENSDF link

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

BE = 1544.669 ( 0.001) MeV

Qbeta+ = 0.227 ( 0.001) MeV

	Energy T	J+	J-	J-other	T1/2	
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S-alpha=	-1.717 ( 0.002)-----					
195AU 1	0.000	3/2+			1 186.01 D 6	
195AU 2	0.061	1/2+			2 3.0 NS 2	
195AU 3	0.242	3/2+			3 30 PS LT	
195AU 4	0.262	5/2+			4 54 PS 10	
195AU 5			0.319	11/2-	5 30.5 S 2	
195AU 6				0.440	3/2+,5/2+	6
195AU 7			0.526	7/2-	7	
195AU 8				0.549	(7/2)+	8
195AU 9			0.706	15/2-	9	
195AU 10				0.778		10
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195AU 11				0.819	(9/2+)	11
195AU 12	0.841	1/2+			12	
195AU 13	0.841	3/2+			13	
195AU 14			0.879	13/2-	14	
195AU 15			0.894	9/2-	15	
195AU 16				0.947		16
195AU 17				0.955	(9/2+)	17
195AU 18			1.068	9/2-	18	
195AU 19	1.083	3/2+			19	
195AU 20				1.106	3/2+,5/2+	20
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195AU 21			1.111	3/2-	21	
195AU 22	1.172	3/2+			22	
195AU 23				1.251	(3/2+), (5/2)+	23
195AU 24			1.281	11/2-	24	
195AU 25				1.325	1/2,3/2,5/2+	25
195AU 26	1.335	1/2+			26	
195AU 27			1.346	11/2-	27	
195AU 28	1.354	3/2+			28	
195AU 29				1.366	(17/2-)	29
195AU 30				1.394	3/2+,5/2+	30
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195AU 31				1.397	(11/2+)	31
195AU 32				1.405	13/2-,15/2-	32
195AU 33				1.406	9/2-,11/2,13/2-	33
195AU 34			1.425	19/2-	34	
195AU 35				1.433	1/2,3/2,5/2+	35
195AU 36				1.443	1/2,3/2	36

195AU 37						1.487	9/2-,11/2-	37		
195AU 38						1.490	(13/2+)	38		
195AU 39		1.503	1/2+					39		
195AU 40					1.560	13/2-		40		
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195AU 41						1.585	5/2-,7/2-	41		
195AU 42						1.606	11/2-,13/2-,15/2	42-		
195AU 43						1.781	5/2-,7/2-	43		
195AU 44		1.813	21/2+					44	8.04 NS	28
195AU 45		1.979	25/2+					45	3.5 NS	8
195AU 46						1.983	9/2-,11/2-	46		
195AU 47						2.022	(25/2+)	47		
195AU 48						2.126	(27/2+)	48		
195AU 49						2.240	(29/2+)	49		
195AU 50						2.244	(23/2-)	50		
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195AU 51						2.295		51		
195AU 52						2.348		52		
195AU 53						2.350	11/2+,13/2+	53		
195AU 54						2.418	(29/2+)	54	69 NS	AP
195AU 55		2.461	29/2+					55		

S-p = 5.096 ( 0.001)-----  
S-n = 8.426 ( 0.002)-----  
S-2p = 12.609 ( 0.002)-----  
S-2n = 15.305 ( 0.009)-----  
S-alpha= -1.717 ( 0.002)-----

S+p = -6.548 ( 0.003)  
S+n = -6.643 ( 0.003)  
S+2p = -10.365 ( 0.014)  
S+2n = -14.715 ( 0.001)  
S+alpha = 2.083 ( 0.028)

gap p = -1.452 ( 0.003)  
gap n = 1.783 ( 0.004)  
gap 2p = 2.244 ( 0.014)  
gap 2n = 0.589 ( 0.009)  
gap alpha = 0.366 ( 0.028)