

^{193}Au $Z = 79$ $N = 114$ adopted link ENSDF link

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

BE = 1529.364 (0.009) MeV

Qbeta+ = 1.075 (0.009) MeV

	Energy T	J+	J-	J-other	T1/2

S-alpha=	-2.620	(0.015)	-----		
193AU 1	0.000	3/2+			1 17.65 H 15
193AU 2				0.038 (1/2)+	2 3.81 NS 18
193AU 3				0.225 (3/2)+	3 0.03 NS LT
193AU 4	0.258	5/2+			4 45 PS 20
193AU 5			0.290 11/2-		5 3.9 S 3
193AU 6	0.382	5/2+			6
193AU 7			0.508 7/2-		7 0.29 NS 2
193AU 8				0.539 (7/2+)	8
193AU 9				0.687 (7/2+)	9
193AU 10				0.698 (15/2)-	10

193AU 11			0.790 9/2-		11 1.2 NS 1
193AU 12				0.809 (9/2)+	12
193AU 13	0.828	3/2+			13
193AU 14				0.863 (13/2)-	14
193AU 15			0.891 9/2-		15
193AU 16				0.929 (9/2+)	16
193AU 17				0.984 (7/2+)	17
193AU 18				1.085 (7/2+)	18
193AU 19				1.089	19
193AU 20				1.106 (7/2+)	20

193AU 21				1.106 (11/2-)	21
193AU 22				1.119 (3/2)+	22
193AU 23				1.132 9/2-,11/2-	23
193AU 24				1.154 (11/2+)	24
193AU 25				1.194 (13/2-)	25
193AU 26				1.285 9/2-,11/2-	26
193AU 27				1.297 (3/2- TO 11/2-)	27
193AU 28				1.300 (3/2 TO 11/2+)	28
193AU 29				1.331 (9/2+)	29
193AU 30				1.344 (1/2+ TO 9/2+)	30

193AU 31				1.355 (11/2 TO 15/2-)	31
193AU 32				1.373 (17/2)-	32
193AU 33				1.380 (11/2+)	33
193AU 34				1.399 (13/2)-	34
193AU 35			1.400 11/2-		35
193AU 36				1.413 (9/2-)	36

193AU 37				1.418	(5/2+, 7/2+)	37		
193AU 38				1.419	(19/2)-	38		
193AU 39				1.433	(11/2+, 13/2+)	39		
193AU 40				1.455	(11/2 TO 15/2-)	40		

193AU 41				1.463		41		
193AU 42				1.477	(13/2+)	42		
193AU 43				1.477	(7/2, 9/2, 11/2)-	43		
193AU 44				1.496	(9/2)-	44		
193AU 45				1.514	(7/2-)	45		
193AU 46				1.522	(15/2-)	46		
193AU 47				1.527	(9/2, 7/2+)	47		
193AU 48				1.572	(9/2-, 11/2, 13/2	48+)		
193AU 49				1.576	11/2-, 13/2-	49		
193AU 50				1.578	(5/2, 7/2)+	50		

193AU 51				1.599		51		
193AU 52				1.603	(3/2-, 5/2+)	52		
193AU 53				1.630	11/2-, 13/2-	53		
193AU 54				1.655	(9/2-, 11/2, 13/2	54+)		
193AU 55				1.658	1/2(+) TO 5/2(+	55)		
193AU 56				1.679		56		
193AU 57				1.680	(11/2-, 13/2-)	57		
193AU 58				1.685	(9/2- TO 13/2-)	58		
193AU 59				1.709	(17/2-)	59		
193AU 60				1.733	(15/2-)	60		

193AU 61				1.745		61		
193AU 62		1.776	11/2-			62		
193AU 63				1.795	(13/2-)	63		
193AU 64				1.815	(1/2, 3/2, 5/2+)	64		
193AU 65				1.815	(9/2-, 11/2-, 13/2	65-)		
193AU 66				1.830	(11/2-, 13/2-)	66		
193AU 67				1.862	(1/2+, 3/2, 5/2+)	67		
193AU 68				1.869	(11/2- TO 15/2-	68)		
193AU 69				1.876	(11/2-, 13/2-)	69		
193AU 70				1.915	(11/2- TO 15/2-	70)		

193AU 71				1.930	11/2-, 13/2-	71		
193AU 72				1.939	(11/2, 13/2)-	72		
193AU 73				1.947	(21/2)+	73	10.4 NS	8
193AU 74				2.012	(13/2-, 15/2-)	74		
193AU 75				2.015	(1/2+, 3/2, 5/2+)	75		
193AU 76				2.023	(11/2 TO 15/2-)	76		
193AU 77				2.037	(11/2, 13/2)-	77		
193AU 78				2.043	1/2, 3/2, 5/2	78		
193AU 79				2.063	11/2-, 13/2-, 15/2	79-		
193AU 80				2.080	(25/2+)	80	2.51 NS	13

193AU 81				2.087	(21/2-)	81		

193AU 82				2.101	(19/2-)	82			
193AU 83				2.104	(11/2,13/2)-	83			
193AU 84				2.125	(11/2-)	84			
193AU 85				2.130	(11/2- TO 15/2-	85)			
193AU 86				2.140	(13/2-,15/2-)	86			
193AU 87				2.140	(23/2+)	87			
193AU 88				2.158	(11/2-)	88			
193AU 89				2.159	(11/2- TO 15/2-	89)			
193AU 90				2.173	(23/2-)	90			

193AU 91				2.197	(11/2-,13/2,15/2	91-)			
193AU 92				2.202	(11/2-)	92			
193AU 93				2.206	(11/2-)	93			
193AU 94				2.215	(13/2-,15/2-)	94			
193AU 95				2.255	(11/2- TO 15/2-	95)			
193AU 96				2.279	(11/2-)	96			
193AU 97				2.285	(11/2+)	97			
193AU 98				2.291	(11/2+)	98			
193AU 99				2.320	(21/2-)	99			
193AU 100				2.325	(29/2+)	100	0.2	NS	LT

193AU 101				2.378	(27/2-)	101	0.79	NS	8
193AU 102				2.477	(31/2-)	102	3.52	NS	18
193AU 103				2.487	(31/2+)	103	150	NS	50
193AU 104				2.701	(33/2-)	104	1.80	NS	9
193AU 105				2.923	(35/2+)	105			
193AU 106				3.155	(37/2-)	106	0.5	NS	LT
193AU 107				3.442	(39/2+)	107			
193AU 108				3.896	(41/2-)	108			
193AU 109				4.063	(43/2+)	109			
193AU 110				4.348	(47/2+)	110			

S-p	=	4.405	(0.009)	-----					
193AU 111				4.701	(45/2-)	111			
193AU 112				5.059	(51/2+)	112			
193AU 113				5.232	(49/2-)	113			
193AU 114				5.742	(55/2+)	114			

S-p	=	4.405	(0.009)	-----					
S-n	=	8.704	(0.018)	-----					
S-2p	=	11.274	(0.009)	-----					
S-2n	=	15.750	(0.010)	-----					
S-alpha	=	-2.620	(0.015)	-----					

S+p	=	-6.068	(0.009)						
S+n	=	-6.878	(0.009)						
S+2p	=	-9.328	(0.014)						
S+2n	=	-15.305	(0.009)						
S+alpha	=	2.626	(0.016)						

gap p = -1.663 (0.013)
gap n = 1.826 (0.020)
gap 2p = 1.946 (0.017)
gap 2n = 0.445 (0.013)
gap alpha = 0.006 (0.022)