

^{191}Ir $Z = 77$ $N = 114$ adopted link ENSDF link

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

BE = 1518.090 (0.001) MeV

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

S-alpha=	-2.083	(0.002)	-----		
191IR 1	0.000	3/2+			1 STABLE
191IR 2	0.082	1/2+			2 4.08 NS 7
191IR 3	0.129	5/2+			3 89.9 PS 9
191IR 4			0.171	11/2-	4 4.899 S 23
191IR 5	0.179	3/2+			5 43 PS 4
191IR 6				0.300	6
191IR 7				0.343	(7/2)+ 7 20.4 PS 8
191IR 8				0.351	(5/2)+ 8 18.8 PS 25
191IR 9			0.391	7/2-	9 240 PS 20
191IR 10				0.503	(9/2)+ 10 13.4 PS 19

191IR 11				0.504	(7/2)+ 11
191IR 12	0.539	3/2+			12 9.8 PS 8
191IR 13				0.557	(13/2-) 13
191IR 14				0.588	3/2+,5/2+ 14 0.3 PS AP
191IR 15				0.591	(15/2-) 15
191IR 16				0.614	16
191IR 17				0.624	(1/2+) 17 5 PS GT
191IR 18				0.654	(9/2-) 18
191IR 19				0.659	(3/2-) 19 0.12 NS LT
191IR 20	0.686	7/2+			20 2.7 PS 3

191IR 21				0.748	(5/2)+ 21
191IR 22	0.763	3/2+			22
191IR 23				0.800	(5/2)- 23
191IR 24				0.812	(9/2+) 24
191IR 25				0.817	25
191IR 26				0.825	(7/2+,9/2+) 26
191IR 27				0.832	(11/2+) 27 3.15 PS 19
191IR 28				0.878	(9/2-,11/2+) 28
191IR 29				0.919	(11/2-) 29
191IR 30				0.928	(7/2+) 30

191IR 31				0.935	(1/2+,3/2,5/2+) 31
191IR 32				0.945	(5/2+,7/2+,9/2+) 32
191IR 33				0.963	(15/2-) 33
191IR 34				0.977	(7/2-) 34
191IR 35				0.991	(11/2+) 35
191IR 36				1.004	(13/2+) 36
191IR 37	1.034	1/2+			37

191IR 38				1.037	(17/2-)	38
191IR 39				1.053		39
191IR 40		1.070	3/2+			40

191IR 41				1.127	(19/2-)	41
191IR 42				1.130		42
191IR 43				1.135	(7/2-,9/2,11/2	43-)
191IR 44				1.138		44
191IR 45				1.207	(7/2+,9/2+,11/2+	45)
191IR 46				1.207	(9/2-)	46
191IR 47				1.211	(9/2,11/	472)
191IR 48				1.244		48
191IR 49				1.253	(13/2-)	49
191IR 50				1.297		50

191IR 51				1.359		51
191IR 52				1.393		52
191IR 53				1.398	(13/2+)	53
191IR 54				1.401	(5/2+,7/2-)	54
191IR 55				1.418	(15/2+)	55
191IR 56				1.422	(17/2-)	56
191IR 57				1.433		57
191IR 58				1.449	1/2-,3/2	58-
191IR 59		1.461	3/2+			59
191IR 60				1.507		60

191IR 61				1.520	5/2-,7/2	61-
191IR 62		1.596	3/2+			62
191IR 63				1.600	(17/2+)	63
191IR 64				1.613		64
191IR 65				1.642		65
191IR 66				1.646	(21/2	66-)
191IR 67				1.652		67
191IR 68				1.660		68
191IR 69				1.681	(23/2	69-)
191IR 70				1.711		70

191IR 71				2.047		71

S-p = 5.290 (0.001)-----
S-n = 8.026 (0.002)-----
S-2p = 13.308 (0.008)-----
S-2n = 14.402 (0.013)-----
S-alpha= -2.083 (0.002)-----

S+p = -6.869 (0.003)
S+n = -6.198 (0.002)
S+2p = -11.274 (0.009)
S+2n = -13.970 (0.002)

S+alpha = 1.717 (0.002)

gap p = -1.579 (0.003)

gap n = 1.828 (0.003)

gap 2p = 2.034 (0.012)

gap 2n = 0.432 (0.013)

gap alpha = -0.366 (0.002)