

^{187}Ir $Z = 77$ $N = 110$ adopted link ENSDF link

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

BE = 1488.645 (0.028) MeV

Qbeta+ = 1.670 (0.028) MeV

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

S-alpha=	-3.835	(0.029)	-----		
187IR 1	0.000	3/2+			1 10.5 H 3
187IR 2	0.106	1/2+			2 11.5 NS 3
187IR 3	0.110	5/2+			3 120 PS 15
187IR 4			0.186	9/2-	4 30.3 MS 6
187IR 5	0.190	3/2+			5 22 PS 10
187IR 6			0.202	5/2-	6 0.84 NS 8
187IR 7	0.285	7/2+			7
187IR 8	0.312	5/2+			8 30 PS LT
187IR 9				0.350 (13/2-)	9
187IR 10			0.389	1/2-	10 65 PS LT

187IR 11			0.434	11/2-	11 152 NS 12
187IR 12				0.443 (9/2+)	12
187IR 13	0.471	7/2+			13
187IR 14			0.486	3/2-	14
187IR 15			0.486	7/2-	15
187IR 16				0.620 (11/2-)	16
187IR 17				0.675 (17/2-)	17
187IR 18				0.688 (9/2+)	18
187IR 19				0.717 (11/2+)	19
187IR 20			0.731	5/2-	20

187IR 21				0.738 (7/2-)	21
187IR 22				0.764 (13/2-)	22
187IR 23				0.816 (3/2-,5/2-)	23
187IR 24				0.819 (9/2-)	24
187IR 25	0.819	3/2+			25
187IR 26				0.842 (9/2-)	26
187IR 27				0.896 (1/2-,3/2-)	27
187IR 28				0.898 (11/2+)	28
187IR 29			0.902	15/2-	29
187IR 30				0.903 (13/2+)	30

187IR 31				0.964 (15/2-)	31
187IR 32				0.985	32
187IR 33				0.995 (11/2-)	33
187IR 34				1.002 (3/2+,5/2+)	34
187IR 35				1.009 (13/2-)	35
187IR 36				1.023 (5/2-)	36

187IR 37				1.042	(11/2-)	37
187IR 38				1.095	(17/2-)	38
187IR 39				1.139	(21/2-)	39
187IR 40				1.159	(15/2-)	40

187IR 41				1.173		41
187IR 42				1.192		42
187IR 43				1.194	(13/2+)	43
187IR 44				1.215		44
187IR 45				1.219	(5/2-)	45
187IR 46				1.247		46
187IR 47				1.256	1/2+,3/2+,5/2+	47
187IR 48				1.264	(15/2+)	48
187IR 49				1.317	(19/2-)	49
187IR 50				1.322	(17/2-)	50

187IR 51				1.353	(17/2-)	51
187IR 52				1.419		52
187IR 53				1.443	(15/2+)	53
187IR 54				1.472	(17/2+)	54
187IR 55				1.523	(19/2-)	55
187IR 56				1.561		56
187IR 57				1.591		57
187IR 58				1.637		58
187IR 59				1.721		59
187IR 60				1.722	(25/2-)	60

187IR 61				1.799		61
187IR 62				1.848	(23/2-)	62
187IR 63				1.901	(19/2+)	63
187IR 64				1.993	(21/2-)	64
187IR 65				2.034	(19/2-)	65
187IR 66				2.131	(21/2+)	66
187IR 67				2.225		67
187IR 68				2.234	(23/2-)	68
187IR 69				2.260	(23/2-)	69
187IR 70				2.277		70

187IR 71				2.291		71
187IR 72				2.306		72
187IR 73				2.361		73
187IR 74				2.373		74
187IR 75				2.381		75
187IR 76				2.399		76
187IR 77				2.402	(29/2-)	77
187IR 78				2.404		78
187IR 79				2.413		79
187IR 80				2.416		80

187IR 81				2.468	(27/2-)	81

187IR	82				2.490		82
187IR	83				2.506		83
187IR	84				2.620		84
187IR	85				3.152	(33/2-)	85
187IR	86				3.159	(31/2-)	86
S-p	=	3.838	(0.028)	-----			
187IR	87				3.934	(37/2-)	87
187IR	88				4.677	(41/2-)	88
187IR	89				5.497	(45/2-)	89

S-p = 3.838 (0.028)-----
S-n = 8.448 (0.032)-----
S-2p = 10.308 (0.028)-----
S-2n = 15.356 (0.040)-----
S-alpha= -3.835 (0.029)-----

S+p = -5.561 (0.028)
S+n = -6.867 (0.029)
S+2p = -8.611 (0.034)
S+2n = -15.043 (0.031)
S+alpha = 3.327 (0.028)

gap p = -1.722 (0.040)
gap n = 1.582 (0.044)
gap 2p = 1.698 (0.044)
gap 2n = 0.314 (0.050)
gap alpha = -0.509 (0.041)