

^{167}Hf $Z = 72$ $N = 95$ adopted link ENSDF link

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

BE = 1345.049 (0.028) MeV

Qbeta+ = 4.059 (0.047) MeV

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

S-alpha=	-3.401	(0.032)	-----		
167HF 1	|	|	|	0.000 (5/2)-	1 2.05 M 5
167HF 2	|	|	|	0.092 (7/2-)	2
167HF 3	|	|	|	0.144 (13/2+)	3
167HF 4	|	|	|	0.188 (11/2+)	4
167HF 5	|	|	|	0.207 (9/2-)	5
167HF 6	|	|	|	0.349 (17/2+)	6
167HF 7	|	|	|	0.355 (11/2-)	7
167HF 8	|	|	|	0.401 (15/2+)	8
167HF 9	|	|	|	0.505 (13/2-)	9
167HF 10	|	|	|	0.692 (21/2+)	10

167HF 11	|	|	|	0.707 (15/2-)	11
167HF 12	|	|	|	0.767 (19/2+)	12
167HF 13	|	|	|	0.884 (17/2-)	13
167HF 14	|	|	|	1.121 (19/2-)	14
167HF 15	|	|	|	1.152 (25/2+)	15
167HF 16	|	|	|	1.253 (23/2+)	16
167HF 17	|	|	|	1.324 (21/2-)	17
167HF 18	|	|	|	1.561 (23/2-)	18
167HF 19	|	|	|	1.618 (25/2+)	19
167HF 20	|	|	|	1.705 (29/2+)	20

167HF 21	|	|	|	1.797 (25/2-)	21
167HF 22	|	|	|	1.832 (27/2+)	22
167HF 23	|	|	|	1.995 (27/2-)	23
167HF 24	|	|	|	2.148 (29/2+)	24
167HF 25	|	|	|	2.245 (29/2-)	25
167HF 26	|	|	|	2.289 (27/2-)	26
167HF 27	|	|	|	2.332 (33/2+)	27
167HF 28	|	|	|	2.339 (29/2-)	28
167HF 29	|	|	|	2.442 (31/2-)	29
167HF 30	|	|	|	2.480 (31/2+)	30

167HF 31	|	|	|	2.695 (33/2-)	31
167HF 32	|	|	|	2.758 (33/2+)	32
167HF 33	|	|	|	2.769 (31/2-)	33
167HF 34	|	|	|	2.811 (33/2+)	34
167HF 35	|	|	|	2.869 (33/2-)	35
167HF 36	|	|	|	2.938 (35/2-)	36

167HF	37	|	|	|	3.006	(37/2+)	37
167HF	38	|	|	|	3.181	(35/2+)	38
167HF	39	|	|	|	3.207	(37/2-)	39
167HF	40	|	|	|	3.261	(37/2+)	40

167HF	41	|	|	|	3.288	(35/2-)	41
167HF	42	|	|	|	3.417	(37/2+)	42
167HF	43	|	|	|	3.453	(37/2-)	43
167HF	44	|	|	|	3.503	(39/2-)	44
167HF	45	|	|	|	3.667	(41/2+)	45
167HF	46	|	|	|	3.788	(41/2-)	46
167HF	47	|	|	|	3.873	(41/2+)	47
167HF	48	|	|	|	3.875	(39/2-)	48
167HF	49	|	|	|	3.922	(39/2+)	49
167HF	50	|	|	|	4.103	(41/2-)	50

167HF	51	|	|	|	4.142	(43/2-)	51
167HF	52	|	|	|	4.335	(45/2+)	52
167HF	53	|	|	|	4.437	(45/2-)	53
167HF	54	|	|	|	4.526	(43/2-)	54
167HF	55	|	|	|	4.628	(45/2+)	55
167HF	56	|	|	|	4.673	(43/2+)	56
S-p	=	4.736	(	0.041)	-----		
167HF	57	|	|	|	4.822	(45/2-)	57
167HF	58	|	|	|	4.851	(47/2-)	58
167HF	59	|	|	|	5.084	(49/2+)	59
167HF	60	|	|	|	5.152	(49/2-)	60

167HF	61	|	|	|	5.237	(47/2-)	61
167HF	62	|	|	|	5.430	(49/2+)	62
167HF	63	|	|	|	5.491	(47/2+)	63
167HF	64	|	|	|	5.599	(49/2-)	64
167HF	65	|	|	|	5.624	(51/2-)	65
167HF	66	|	|	|	5.922	(53/2+)	66
167HF	67	|	|	|	5.927	(53/2-)	67
167HF	68	|	|	|	6.250	(53/2+)	68
167HF	69	|	|	|	6.458	(55/2-)	69
167HF	70	|	|	|	6.766	(57/2-)	70

167HF	71	|	|	|	6.837	(57/2+)	71
167HF	72	|	|	|	7.104	(57/2+)	72
167HF	73	|	|	|	7.355	(59/2-)	73
167HF	74	|	|	|	7.667	(61/2-)	74
S-n	=	7.680	(	0.040)	-----		
S-2p	=	7.750	(	0.039)	-----		
167HF	75	|	|	|	7.807	(61/2+)	75
167HF	76	|	|	|	8.014	(61/2+)	76
167HF	77	|	|	|	8.315	(63/2-)	77
167HF	78	|	|	|	8.630	(65/2-)	78
167HF	79	|	|	|	8.811	(65/2+)	79

167HF	80	|	|	|	9.644	(69/2-)	80

167HF	81	|	|	|	9.839	(69/2+)	81

S-p	=	4.736	(	0.041)	-----
S-n	=	7.680	(	0.040)	-----
S-2p	=	7.750	(	0.039)	-----
S-2n	=	17.975	(	0.040)	-----
S-alpha	=	-3.401	(	0.032)	-----

S+p	=	-2.215	(	0.040)
S+n	=	-9.964	(	0.040)
S+2p	=	-6.028	(	0.032)
S+2n	=	-17.392	(	0.040)
S+alpha	=	3.957	(	0.040)

gap p	=	2.521	(	0.057)
gap n	=	-2.284	(	0.056)
gap 2p	=	1.722	(	0.050)
gap 2n	=	0.583	(	0.056)
gap alpha	=	0.556	(	0.051)