

^{52}Fe $Z = 26$ $N = 26$ adopted link ENSDF link

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

BE = 447.700 (0.000) MeV

Qbeta+ = 2.379 (0.000) MeV

	Energy T	J+		J-		J-other		T1/2
52FE	1	0.000	0+					1 8.275 H 8
52FE	2	0.849	2+					2 7.8 PS 10
52FE	3	2.385	4+					3 0.22 PS 5
52FE	4	2.759	2+					4 0.14 PS +9-5
52FE	5	3.585	4+					5 0.28 PS +21-7
52FE	6	4.146	0+					6
52FE	7	4.326	6+					7 0.17 PS 5
52FE	8			4.396	3-			8
52FE	9	4.456	2+					9
52FE	10					4.851	(5-,6+)	10 0.5 PS +23-2
52FE	11	4.872	6+					11 0.21 PS 8
52FE	12					4.896		12
52FE	13			5.137	5-			13
52FE	14			5.140	5-			14
52FE	15	5.328	4+					15
52FE	16	5.363	0+					16
52FE	17					5.439		17
52FE	18	5.483	4+					18
52FE	19	5.529	4+					19
52FE	20					5.563	(3-)	20
52FE	21	5.655	6+					21
52FE	22	5.718	0+					22
52FE	23					5.792		23
52FE	24	5.829	2+					24
52FE	25	5.965	4+					25
52FE	26	6.034	2+					26
52FE	27	6.044	2+					27
52FE	28					6.174	(6+)	28
52FE	29					6.231		29
52FE	30	6.361	8+					30 0.15 PS 5
52FE	31	6.416	4+					31
52FE	32					6.454		32
52FE	33	6.483	2+					33
52FE	34	6.493	8+					34 0.18 PS 4
52FE	35			6.531	3-			35
52FE	36					6.564		36
52FE	37					6.634	(0+)	37

52FE 38		6.714	2+						38	
52FE 39							6.744		39	
52FE 40							6.772	(2+)	40	

52FE 41					6.882		1-		41	
52FE 42		6.927	0+						42	
52FE 43		6.958	12+						43 45.9 S 6	
52FE 44					7.013		3-		44	
52FE 45							7.124	(4+)	45	
52FE 46							7.261	(6+)	46	
52FE 47							7.289		47	
52FE 48							7.338		48	
S-p =		7.378	(0.000)	-----						
52FE 49							7.382	(10+)	49	
52FE 50		7.463	2+						50	

52FE 51							7.510		51	
52FE 52		7.611	6+						52	
52FE 53		7.636	1 4+						53	
52FE 54							7.787		54	
52FE 55							7.817		55	
52FE 56		7.935	2+						56	
S-alpha=		7.936	(0.007)	-----						
52FE 57		8.037	0+						57	
52FE 58							8.067		58	
52FE 59							8.097		59	
52FE 60							8.122		60	

52FE 61					8.146		3-		61	
52FE 62							8.184		62	
52FE 63							8.207	(3-)	63	
52FE 64							8.240		64	
52FE 65							8.327	(3-)	65	
52FE 66		8.354	2+						66	
52FE 67		8.401	2+						67	
52FE 68							8.425		68	
52FE 69							8.461		69	
52FE 70		8.511	4+						70	

52FE 71		8.535	4+						71	
52FE 72		8.561	0+						72	
52FE 73							8.618		73	
52FE 74							8.661	(4+)	74	
52FE 75							8.677		75	
52FE 76							8.727		76	
52FE 77		8.748	4+						77	
52FE 78							8.770	(3-)	78	
52FE 79							8.832		79	
52FE 80							8.872		80	

52FE 81				8.900	(2+)	81
52FE 82				8.936		82
52FE 83				8.962	(6+)	83
52FE 84				8.985		84
52FE 85				9.044		85
52FE 86				9.059		86
52FE 87				9.130		87
52FE 88				9.213		88
52FE 89		9.279	4+			89
52FE 90				9.311		90

52FE 91				9.338		91
52FE 92				9.357		92
52FE 93				9.458		93
52FE 94				9.497		94
52FE 95				9.770		95

S-p = 7.378 (0.000)-----
S-n = 16.214 (0.001)-----
S-2p = 12.649 (0.000)-----
S-2n = 29.998 (0.008)-----
S-alpha= 7.936 (0.007)-----

S+p = -1.616 (0.002)
S+n = -10.687 (0.002)
S+2p = -5.524 (0.005)
S+2n = -24.065 (0.000)
S+alpha = -8.001 (0.000)

gap p = 5.762 (0.002)
gap n = 5.527 (0.002)
gap 2p = 7.124 (0.005)
gap 2n = 5.933 (0.008)
gap alpha = -0.065 (0.007)