

^{50}Cr $Z = 24$ $N = 26$ adopted link ENSDF link

Based on ensdf_240402 (Apr 2024), and mass evaluation from 2020

BE = 435.051 (0.000) MeV

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

50CR 1	0.000	1 0+			1 1.3E+18 Y GT
50CR 2	0.783	2+			2 9.08 PS 28
50CR 3	1.881	4+			3 2.20 PS 33
50CR 4	2.925	2+			4 9.4 FS 14
50CR 5	3.161	2+			5 10.9 FS 16
50CR 6	3.164	6+			6 0.80 PS 23
50CR 7	3.325	4+			7 97 FS 25
50CR 8				3.595 2+,3,4+	8 30 FS 5
50CR 9	3.611	4+			9 6 FS 4
50CR 10	3.629	1+			10 0.305 EV 13

50CR 11	3.698	2+			11 12.8 FS 18
50CR 12	3.792	(5+)			12 9.0 PS 14
50CR 13	3.826	(6+)			13 0.7 PS LT
50CR 14				3.844 2+,3,4+	14 0.22 PS 6
50CR 15	3.850	0+			15
50CR 16				3.875 (4+,5,6+)	16 0.62 PS 21
50CR 17	3.895	0+			17 24 PS +14-10
50CR 18				3.937 2+,3,4+	18 2.2 FS 10
50CR 19	4.040	(0+)			19
50CR 20			4.052 3-		20 0.56 PS 11

50CR 21	4.068	0+			21 6.5 FS 17
50CR 22				4.130 (1,2+)	22 0.18 PS 6
50CR 23	4.193	2+			23
50CR 24				4.207	24
50CR 25				4.282	25
50CR 26			4.367 5-		26 1.39 PS 35
50CR 27	4.524	(4+)			27
50CR 28			4.546 3-		28
50CR 29				4.653	29
50CR 30	4.676	2+			30

50CR 31	4.700	(1+)			31
50CR 32	4.731	0+			32
50CR 33	4.745	8+			33 0.28 PS 7
50CR 34				4.755	34
50CR 35	4.766	2+			35
50CR 36				4.807	36
50CR 37				4.906	37

50CR 38		4.924	(4+)						38
50CR 39		4.961	(4+)						39
50CR 40		4.997	1(+)						40 0.140 EV 14

50CR 41							5.015		41
50CR 42							5.039		42
50CR 43							5.053		43
50CR 44							5.078		44
50CR 45							5.093		45
50CR 46							5.198		46
50CR 47							5.207		47
50CR 48					5.213	(6-)			48 0.42 PS 7
50CR 49		5.233	4+						49
50CR 50							5.250		50

50CR 51							5.272		51
50CR 52							5.297		52
50CR 53							5.336		53
50CR 54							5.376		54
50CR 55							5.429		55
50CR 56							5.445		56
50CR 57							5.455		57
50CR 58							5.548		58
50CR 59							5.597		59
50CR 60							5.611		60

50CR 61							5.623		61
50CR 62							5.684		62
50CR 63							5.731		63
50CR 64							5.741		64
50CR 65							5.780		65
50CR 66							5.813		66
50CR 67							5.835		67
50CR 68							5.859		68
50CR 69							5.903		69
50CR 70		5.931	1+						70 0.073 EV 6

50CR 71							5.944		71
50CR 72							5.957		72
50CR 73					5.983	3-			73
50CR 74					5.998	(7-)			74 0.35 PS LT
50CR 75							6.003		75
50CR 76							6.027		76
50CR 77							6.032		77
50CR 78							6.071		78
50CR 79							6.083		79
50CR 80							6.116		80

50CR 81							6.123		81
50CR 82							6.138		82

50CR 83						6.175		83
50CR 84						6.202		84
50CR 85						6.226		85
50CR 86						6.230		86
50CR 87						6.243		87
50CR 88						6.272		88
50CR 89						6.305		89
50CR 90						6.330		90

50CR 91		6.341		10+				91 0.76 PS 14
50CR 92						6.342		92
50CR 93						6.376		93
50CR 94						6.450		94
50CR 95						6.650		95
50CR 96		6.754		10+				96 0.111 PS 21
50CR 97						6.790		97
50CR 98		6.951		11+				98 0.49 PS 4
50CR 99		7.340		(1+)				99
50CR 100						7.360		100

50CR 101		7.601		1+				101 0.334 EV 37
50CR 102		7.613		12+				102 0.111 PS 10
50CR 103		7.646		1+				103 0.118 EV 14
50CR 104		7.780		(1+)				104
50CR 105						7.860		105
50CR 106		7.948		1+				106 1.76 EV 10
50CR 107		7.980		(1+)				107
50CR 108		8.046		1+				108 0.238 EV 26
50CR 109		8.122		1+				109 0.094 EV 11
50CR 110		8.270		(1+)				110

50CR 111						8.360		111
50CR 112		8.425		2 6+				112
50CR 113		8.528		1+				113 0.85 EV 11
S-alpha=		8.558		(0.000)				-----
50CR 114		8.638		(1+)				114
50CR 115						8.680		115
50CR 116		8.748		2 4+				116
50CR 117		8.813		2 2+				117
50CR 118		8.886		1+				118 0.53 EV 5
50CR 119		9.008		1+				119 0.286 EV 34
50CR 120		9.208		1+				120 0.37 EV 9

50CR 121		9.327		(12+)				121
50CR 122		9.410		1+				122 0.81 EV 13
50CR 123		9.579		1+				123 0.30 EV 6
S-p		= 9.588		(0.001)				-----
50CR 124		9.642		13+				124 0.05 PS 2
50CR 125		9.719		1+				125 1.42 EV 17
50CR 126		9.900		2+				126

50CR 127		9.915	14+				127	0.22	PS	4
50CR 128		10.110	(1+)				128			
50CR 129		10.240	(1+)				129			
50CR 130		10.380	(1+)				130			

50CR 131		10.500	(1+)				131			
50CR 132		10.750	2+				132			
50CR 133		10.797	13(+)				133	0.62	PS	LT
50CR 134		10.820	(1+)				134			
50CR 135		11.014	13+				135	0.06	PS	1
50CR 136		11.060	(1+)				136			
50CR 137		11.180	(1+)				137			
50CR 138						11.400	138			
50CR 139		11.530	0+				139			
50CR 140		11.660	(1+)				140			

50CR 141		11.680	0+				141			
50CR 142		11.820	(1+)				142			
50CR 143		11.870	0+				143			
50CR 144		12.300	(1+)				144			
50CR 145		12.392	15(+)				145			
50CR 146		12.542	(14+)				146			
50CR 147						12.680	147			
50CR 148						12.790	148			
50CR 149						12.950	149			
S-n	=	13.000	(0.002)	-----						
50CR 150		13.218	15+				150	0.021	PS	+7-4

50CR 151		13.222 3	0+				151			
50CR 152						13.495	152			
50CR 153		13.641	14(+)				153			
50CR 154		13.900	0+				154			
50CR 155		13.921	15(+)				155	0.076	PS	LT
50CR 156						14.500	156			
50CR 157						14.570	157			
50CR 158		14.900	0+				158			
50CR 159		15.034	16+				159	0.021	PS	LT
50CR 160		15.809	16+				160	0.05	PS	LT

50CR 161		16.049	17(+)				161			
S-2p	=	16.346	(0.000)	-----						
50CR 162						17.669 (16,17)	162			
50CR 163						17.790 (16,17)	163			
50CR 164		17.957	18+				164	0.07	PS	LT

S-p	=	9.588	(0.001)	-----						
S-n	=	13.000	(0.002)	-----						
S-2p	=	16.346	(0.000)	-----						
S-2n	=	23.583	(0.007)	-----						

S-alpha= 8.558 (0.000) -----

S+p = -5.271 (0.000)

S+n = -9.261 (0.000)

S+2p = -12.649 (0.000)

S+2n = -21.301 (0.000)

S+alpha = -8.418 (0.000)

gap p = 4.317 (0.001)

gap n = 3.740 (0.002)

gap 2p = 3.698 (0.000)

gap 2n = 2.282 (0.007)

gap alpha = 0.140 (0.000)