

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

Based on ENSDF from Oct 2022, 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	3-				94
50CR 95					6.650	3-				95
50CR 96		6.754	10+							96 0.111 PS 21
50CR 97					6.790	3-				97
50CR 98		6.951	11+							98 0.49 PS 4
50CR 99							7.340	(1+)		99
50CR 100					7.360	3-				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	3-				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	3-				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

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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)
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