^{61}Co $Z = 27$ $N = 34$ link to full NNDC output

Based on ENSDF from Dec 2018, and mass evaluation from 2016

BE = 534.125 (0.001) MeV
Qbeta- = 1.324 (0.001) MeV

	Energy	T	J+		J-		J-other		T1/2	
61CO 1				0.000	7/2-			1	1.649 H	5
61CO 2				1.027	3/2-			2		
61CO 3						1.205	(3/2)-	3		
61CO 4						1.272		4		
61CO 5						1.286	(9/2)-	5	0.55 PS	14
61CO 6						1.325	(1/2-)	6		
61CO 7						1.619	5/2-,7/2-	7		
61CO 8						1.631	(5/2,7/2)-	8		
61CO 9						1.646	(3/2-,5/2)	9		
61CO 10						1.664	(11/2-)	10	7 PS	+7-2
61CO 11						1.674	(7/2)-	11		
61CO 12						1.889	(5/2,7/2)-	12		
61CO 13						1.953	1/2-,3/2-	13		
61CO 14						2.011	(3/2,5/2)-	14		
61CO 15						2.231	(5/2,7/2)-	15		
61CO 16	2.238		1/2+					16		
61CO 17						2.303	1/2-,3/2-	17		
61CO 18						2.339	(11/2-)	18	1.7 PS	+4-3
61CO 19						2.345	5/2-,7/2-	19		
61CO 20						2.374	(1/2:15/2)-	20		
61CO 21						2.374	(13/2-)	21		
61CO 22						2.431	(3/2,5/2)-	22		
61CO 23						2.448	5/2-,7/2-	23		
61CO 24						2.484	(3/2,5/2)-	24		
61CO 25						2.499	(3/2+,5/2+)	25		
61CO 26						2.559	(3/2+)	26		
61CO 27						2.572	3/2+,5/2+	27		
61CO 28						2.642	(3/2:11/2)-	28		
61CO 29						2.707	(3/2:11/2)-	29		
61CO 30						2.727		30		
61CO 31						2.754	(3/2-,5/2)	31		
61CO 32						2.780		32		
61CO 33						2.864	(3/2,5/2)-	33		
61CO 34						2.893	5/2-,7/2-	34		
61CO 35						2.920	(3/2-,5/2)	35		
61CO 36						2.953	(3/2:11/2)-	36		
61CO 37						2.980		37		

61CO	38			3.000	(3/2,5/2)-	38
61CO	39			3.026	3/2+,5/2+	39
61CO	40			3.028	5/2-,7/2-	40
61CO	41			3.077	(3/2:11/2)-	41
61CO	42			3.104	(1/2,3/2,5/2)	42
61CO	43			3.117	(3/2+,5/2+)	43
61CO	44			3.127	(15/2-)	44
61CO	45			3.130	(3/2:11/2)-	45
61CO	46			3.152		46
61CO	47			3.176		47
61CO	48			3.191	(3/2-,5/2)	48
61CO	49		3.197 7/2-			49
61CO	50			3.205	(3/2-,5/2-)	50
61CO	51			3.218	3/2+,5/2+	51
61CO	52			3.239	(3/2-,5/2)	52
61CO	53		3.252 7/2-			53
61CO	54			3.349		54
61CO	55			3.357	(1/2:13/2)	55
61CO	56			3.365	(3/2-,5/2)	56
61CO	57			3.384		57
61CO	58			3.397		58
61CO	59			3.410		59
61CO	60			3.417	(9/2-,11/2-)	60
61CO	61			3.428	(9/2-,11/2-)	61
61CO	62		3.445 7/2-			62
61CO	63			3.471	(3/2,5/2)	63
61CO	64			3.472	(13/2-)	64
61CO	65			3.485	(3/2:11/2)-	65
61CO	66			3.493	5/2-,7/2-	66
61CO	67		3.514 7/2-			67
61CO	68			3.536	(5/2,7/2)	68
61CO	69			3.565		69
61CO	70			3.575	(3/2:11/2)-	70
61CO	71			3.600	(1/2+,5/2-,7/2-)	71
61CO	72			3.609	(3/2:13/2)	72
61CO	73			3.654	(3/2:11/2)-	73
61CO	74			3.658	(15/2)-	74
61CO	75			3.660	(3/2:17/2)+	75
61CO	76			3.691	(3/2:13/2)+	76
61CO	77			3.700	(1/2:15/2)-	77
61CO	78			3.728	(5/2:11/2)-	78
61CO	79			3.753	(3/2:11/2)-	79
61CO	80			3.758		80
61CO	81			3.775	(5/2,7/2)	81
61CO	82			3.806	5/2-,7/2-	82

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 61CO  83 |                |                |   3.815     (3/2:11/2)       83
 61CO  84 |                |                |   3.827                      84
 61CO  85 |                |                |   3.871     3/2+,5/2+        85
 61CO  86 |                |                |   3.890     3/2+,5/2+        86
 61CO  87 |                |                |   3.906                      87
 61CO  88 |                |                |   3.916     (3/2:13/2)+      88
 61CO  89 |                |                |   3.924                      89
 61CO  90 |                |                |   3.937                      90
-----------                                                                 -----------------
 61CO  91 |                |                |   3.965     (5/2-,7/2-)      91
 61CO  92 |                |                |   3.987                      92
 61CO  93 |                |                |   4.002     (1/2+,5/2-,7/2-) 93
 61CO  94 |                |                |   4.071                      94
 61CO  95 |                |                |   4.094     (17/2-)          95  0.76 PS   21
 61CO  96 |                |                |   4.152     (7/2-)           96
 61CO  97 |                |                |   4.211     (3/2:17/2)+      97
 61CO  98 |                |                |   4.267     (1/2+,5/2-,7/2-) 98
 61CO  99 |                |                |   4.282     (5/2:11/2)-      99
 61CO 100 |                |   4.349     7/2-|                              100
-----------                                                                 -----------------
 61CO 101 |                |                |   4.382     3/2+,5/2+        101
 61CO 102 |                |   4.389     7/2-|                              102
 61CO 103 |                |                |   4.455     3/2+,5/2+        103
 61CO 104 |                |   4.499     7/2-|                              104
 61CO 105 |                |                |   4.534     (5/2:11/2)-      105
 61CO 106 |                |                |   4.622     (3/2:11/2)-      106
 61CO 107 |                |                |   4.656     3/2+,5/2+        107
 61CO 108 |                |                |   4.671     (5/2:11/2)-      108
 61CO 109 |                |                |   4.753     3/2+,5/2+        109
 61CO 110 |                |                |   4.766     (3/2:11/2)-      110
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 61CO 111 |                |                |   4.802     (19/2-)          111
 61CO 112 |                |                |   4.838     (5/2:11/2)-      112
 61CO 113 |                |                |   4.911     (5/2:11/2)-      113
 61CO 114 |                |                |   4.960     (5/2)+           114
 61CO 115 |                |                |   4.990     3/2+,5/2+        115
 61CO 116 |                |                |   5.061     (3/2,5/2,7/2)    116
 61CO 117 |                |                |   5.081     (3/2:11/2)-      117
 61CO 118 |                |                |   5.150     (3/2,5/2,7/2)    118
 61CO 119 |                |                |   5.164     +                119
 61CO 120 |                |                |   5.214     (3/2:13/2)       120
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 61CO 121 |                |                |   5.271     (3/2:13/2)+      121
 61CO 122 |                |                |   5.321     (5/2,7/2,9/2)    122
 61CO 123 |                |                |   5.388     (3/2:11/2)-      123
S-alpha=   7.837 ( 0.002)-------------------------------------------------------------------------
S-p    =   8.774 ( 0.004)-------------------------------------------------------------------------
S-n    =   9.319 ( 0.001)-------------------------------------------------------------------------
 61CO 124 |                |                |   9.320     9/2+,11/2+       124
 61CO 125 |                |                |   9.321     9/2+,11/2+       125
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 61CO 126 |                |                |   9.321     9/2+,11/2+      126
 61CO 127 |                |                |   9.322     9/2+,11/2+      127


S-p    =   8.774 ( 0.004)----------------------------------------------------------------------
S-n    =   9.319 ( 0.001)----------------------------------------------------------------------
S-2p   =  21.951 ( 0.002)----------------------------------------------------------------------
S-2n   =  16.811 ( 0.001)----------------------------------------------------------------------
S-alpha=   7.837 ( 0.002)----------------------------------------------------------------------

S+p       = -11.137 ( 0.001)
S+n       =  -6.597 ( 0.019)
S+2p      = -17.260 ( 0.001)
S+2n      = -15.096 ( 0.019)
S+alpha   =  -6.791 ( 0.001)

gap p     =  -2.363 ( 0.004)
gap n     =   2.722 ( 0.019)
gap 2p    =   4.691 ( 0.003)
gap 2n    =   1.715 ( 0.019)
gap alpha =   1.046 ( 0.002)
```