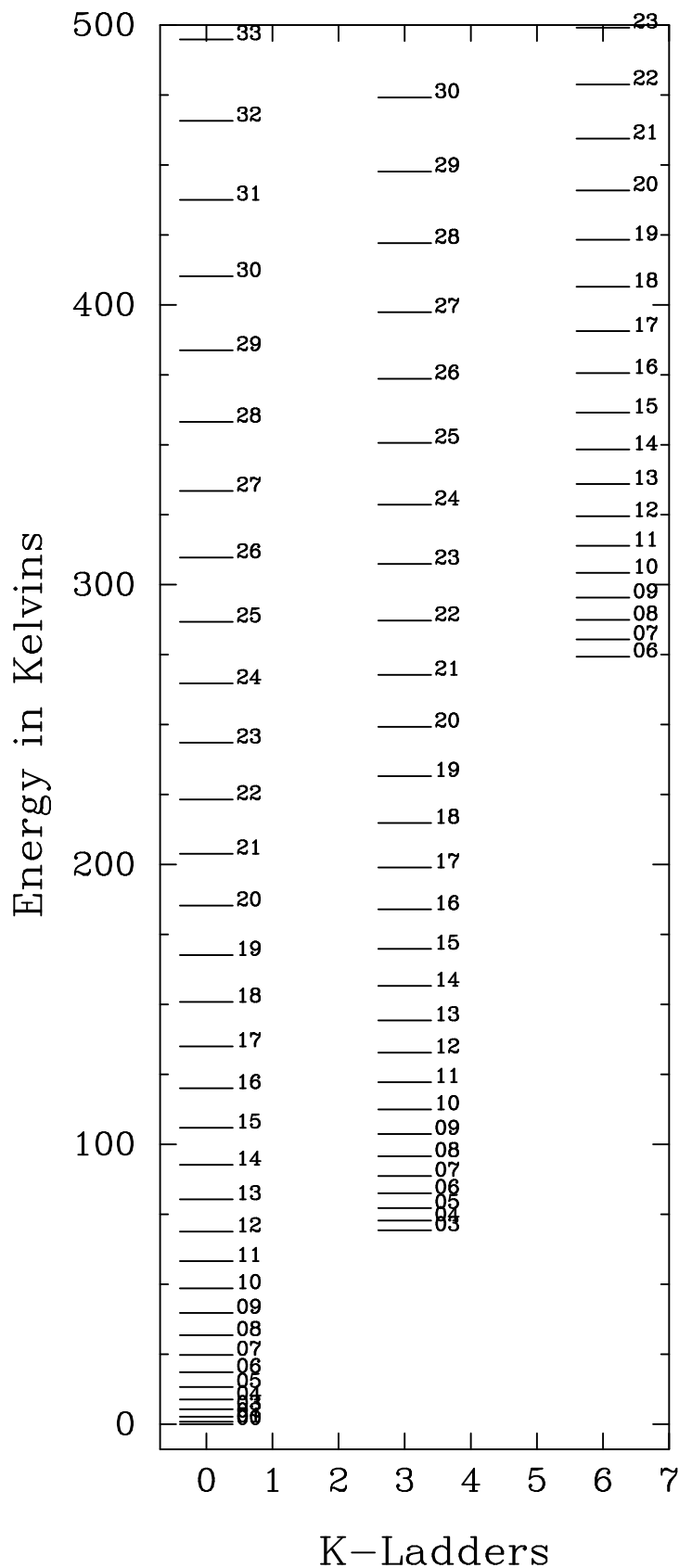


ortho-CH₃¹³CN

B0: 9.19430 GHz C0: 1.5730E+02 GHz Dipole Mom: 3.913 Debye
 DJ: 3.82E-06 GHz DK: 2.84E-03 GHz DJK: 1.76E-04 GHz



Quantum Numbers			Level Degeneracy	Energy Above Ground (Kelvins)
J	K	K1		
00	00		1.	0.00
01	00		3.	0.88
02	00		5.	2.65
03	00		7.	5.30
04	00		9.	8.82
05	00		11.	13.24
06	00		13.	18.53
07	00		15.	24.71
08	00		17.	31.77
09	00		19.	39.71
10	00		21.	48.54
11	00		23.	58.24
12	00		25.	68.83
13	00		27.	80.30
14	00		29.	92.66
15	00		31.	105.89
16	00		33.	120.01
17	00		35.	135.01
18	00		37.	150.89
19	00		39.	167.65

QN(up)			QN(low)			Freq (GHz)	A(U-L)	B(L-U)	Log(Tau) relative
J	K	K1	J	K	K1				
01	00		00	00		18.389	3.69E-07	1.21E+19	-0.70
02	00		01	00		36.777	3.54E-06	8.04E+18	-0.11
03	00		02	00		55.165	1.28E-05	7.24E+18	0.23
04	00		03	00		73.553	3.15E-05	6.90E+18	0.45
05	00		04	00		91.941	6.29E-05	6.70E+18	0.62
06	00		05	00		110.328	1.10E-04	6.58E+18	0.74
07	00		06	00		128.715	1.77E-04	6.50E+18	0.83
08	00		07	00		147.101	2.67E-04	6.44E+18	0.90
09	00		08	00		165.486	3.82E-04	6.39E+18	0.95
10	00		09	00		183.871	5.27E-04	6.35E+18	0.98
11	00		10	00		202.254	7.04E-04	6.32E+18	1.00
12	00		11	00		220.637	9.17E-04	6.30E+18	1.00
13	00		12	00		239.018	1.17E-03	6.27E+18	0.99
14	00		13	00		257.398	1.46E-03	6.26E+18	0.97
15	00		14	00		275.777	1.81E-03	6.24E+18	0.94
16	00		15	00		294.155	2.20E-03	6.23E+18	0.89
17	00		16	00		312.531	2.64E-03	6.22E+18	0.84
18	00		17	00		330.905	3.14E-03	6.21E+18	0.78
19	00		18	00		349.279	3.69E-03	6.20E+18	0.71
20	00		19	00		367.650	4.31E-03	6.19E+18	0.63
21	00		20	00		386.019	5.00E-03	6.18E+18	0.54
22	00		21	00		404.387	5.75E-03	6.17E+18	0.44
23	00		22	00		422.752	6.58E-03	6.17E+18	0.34
24	00		23	00		441.115	7.48E-03	6.16E+18	0.22
25	00		24	00		459.476	8.46E-03	6.16E+18	0.10
26	00		25	00		477.836	9.52E-03	6.15E+18	-0.03
27	00		26	00		496.191	1.07E-02	6.15E+18	-0.16
28	00		27	00		514.546	1.19E-02	6.14E+18	-0.31
29	00		28	00		532.897	1.32E-02	6.14E+18	-0.46

Quantum Numbers			Level Degeneracy	Energy Above Ground (Kelvins)	QN(up)			QN(low)			Freq (GHz)	A(U-L)	B(L-U)	Log(Tau relative)
J	K	K1			J	K	K1	J	K	K1				
20	00		41.	185.29	01	00		00	00		18.389	3.69E-07	1.21E+19	-0.70
21	00		43.	203.82	02	00		01	00		36.777	3.54E-06	8.04E+18	-0.11
22	00		45.	223.23	03	00		02	00		55.165	1.28E-05	7.24E+18	0.23
23	00		47.	243.52	04	03		03	03		73.541	1.38E-05	3.02E+18	-0.37
24	00		49.	264.69	04	00		03	00		73.553	3.15E-05	6.90E+18	0.45
25	00		51.	286.74	05	03		04	03		91.925	4.02E-05	4.29E+18	-0.04
26	00		53.	309.67	05	00		04	00		91.941	6.29E-05	6.70E+18	0.62
27	00		55.	333.48	06	03		05	03		110.309	8.27E-05	4.94E+18	0.15
28	00		57.	358.18	06	00		05	00		110.328	1.10E-04	6.58E+18	0.74
29	00		59.	383.75	07	06		06	06		128.626	4.69E-05	1.72E+18	-1.59
30	00		61.	410.21	07	03		06	03		128.693	1.44E-04	5.30E+18	0.28
31	00		63.	437.54	07	00		06	00		128.715	1.77E-04	6.50E+18	0.83
32	00		65.	465.76	08	06		07	06		147.000	1.16E-04	2.82E+18	-1.31
33	00		67.	494.86	08	03		07	03		147.076	2.29E-04	5.53E+18	0.37
03	03		7.	69.25	08	00		07	00		147.101	2.67E-04	6.44E+18	0.90
04	03		9.	72.78	09	06		08	06		165.372	2.12E-04	3.55E+18	-1.16
05	03		11.	77.20	09	03		08	03		165.458	3.39E-04	5.68E+18	0.44
06	03		13.	82.49	09	00		08	00		165.486	3.82E-04	6.39E+18	0.95
07	03		15.	88.67	10	06		09	06		183.744	3.36E-04	4.06E+18	-1.06
08	03		17.	95.72	10	03		09	03		183.839	4.79E-04	5.78E+18	0.48
09	03		19.	103.66	10	00		09	00		183.871	5.27E-04	6.35E+18	0.98
10	03		21.	112.49	11	06		10	06		202.115	4.94E-04	4.44E+18	-1.01
11	03		23.	122.19	11	03		10	03		202.219	6.51E-04	5.85E+18	0.50
12	03		25.	132.78	11	00		10	00		202.254	7.04E-04	6.32E+18	1.00
13	03		27.	144.25	12	06		11	06		220.485	6.87E-04	4.72E+18	-0.98
14	03		29.	156.60	12	03		11	03		220.599	8.60E-04	5.90E+18	0.51
15	03		31.	169.83	12	00		11	00		220.637	9.17E-04	6.30E+18	1.00
16	03		33.	183.95	13	06		12	06		238.853	9.19E-04	4.94E+18	-0.97
17	03		35.	198.94	13	03		12	03		238.977	1.11E-03	5.94E+18	0.50
18	03		37.	214.82	13	00		12	00		239.018	1.17E-03	6.27E+18	0.99
19	03		39.	231.58	14	06		13	06		257.221	1.19E-03	5.11E+18	-0.97
20	03		41.	249.22	14	03		13	03		257.354	1.40E-03	5.97E+18	0.48
21	03		43.	267.74	14	00		13	00		257.398	1.46E-03	6.26E+18	0.97
22	03		45.	287.15	15	06		14	06		275.586	1.51E-03	5.24E+18	-0.99
23	03		47.	307.43	15	03		14	03		275.729	1.73E-03	5.99E+18	0.45
24	03		49.	328.60	15	00		14	00		275.777	1.81E-03	6.24E+18	0.94
25	03		51.	350.65	16	06		15	06		293.953	1.88E-03	5.35E+18	-1.02
26	03		53.	373.58	16	03		15	03		294.104	2.12E-03	6.01E+18	0.41
27	03		55.	397.39	16	00		15	00		294.155	2.20E-03	6.23E+18	0.89
28	03		57.	422.08	17	06		16	06		312.315	2.30E-03	5.44E+18	-1.07
29	03		59.	447.65	17	03		16	03		312.478	2.55E-03	6.02E+18	0.36
30	03		61.	474.10	17	00		16	00		312.531	2.64E-03	6.22E+18	0.84
06	06		13.	274.23	18	06		17	06		330.678	2.78E-03	5.52E+18	-1.12
07	06		15.	280.40	18	03		17	03		330.849	3.05E-03	6.03E+18	0.30
08	06		17.	287.45	18	00		17	00		330.905	3.14E-03	6.21E+18	0.78
09	06		19.	295.39	19	06		18	06		349.037	3.32E-03	5.58E+18	-1.19
10	06		21.	304.21	19	03		18	03		349.218	3.60E-03	6.04E+18	0.23
11	06		23.	313.91	19	00		18	00		349.279	3.69E-03	6.20E+18	0.71
12	06		25.	324.49	20	06		19	06		367.397	3.92E-03	5.63E+18	-1.26
13	06		27.	335.95	20	03		19	03		367.587	4.21E-03	6.05E+18	0.15
14	06		29.	348.30	20	00		19	00		367.650	4.31E-03	6.19E+18	0.63
15	06		31.	361.52	21	06		20	06		385.753	4.58E-03	5.68E+18	-1.35
16	06		33.	375.63	21	03		20	03		385.953	4.89E-03	6.05E+18	0.07
17	06		35.	390.62	21	00		20	00		386.019	5.00E-03	6.18E+18	0.54
18	06		37.	406.49	22	06		21	06		404.106	5.31E-03	5.71E+18	-1.44
19	06		39.	423.24	22	03		21	03		404.317	5.64E-03	6.06E+18	-0.03
20	06		41.	440.87	22	00		21	00		404.387	5.75E-03	6.17E+18	0.44
21	06		43.	459.39	23	06		22	06		422.461	6.12E-03	5.75E+18	-1.54
22	06		45.	478.78	23	03		22	03		422.679	6.46E-03	6.06E+18	-0.13
23	06		47.	499.06	23	00		22	00		422.752	6.58E-03	6.17E+18	0.34