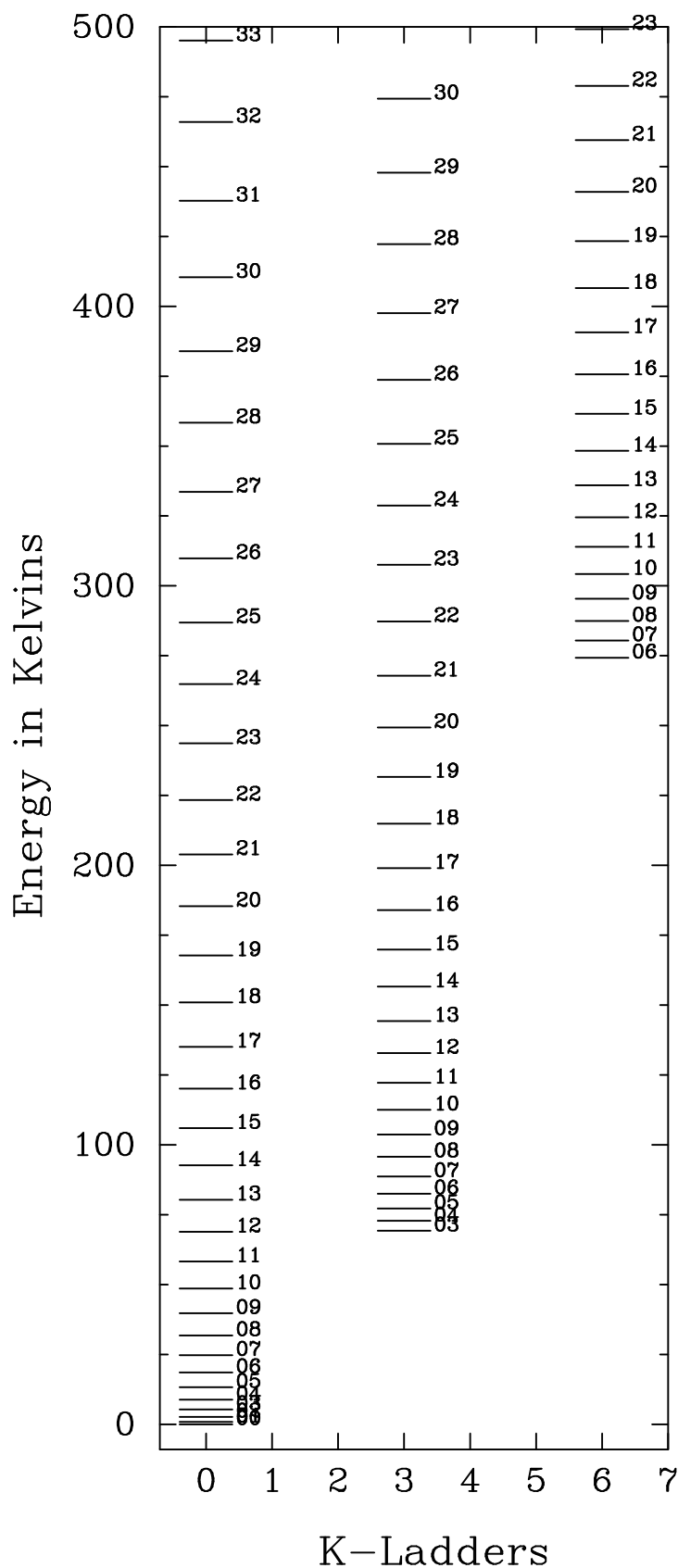


ortho-CH₃CN

B0: 9.19890 GHz C0: 1.5730E+02 GHz Dipole Mom: 3.913 Debye
 DJ: 3.80E-06 GHz DK: 2.84E-03 GHz DJK: 1.77E-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.	8.83
05	00		11.	13.24
06	00		13.	18.54
07	00		15.	24.72
08	00		17.	31.79
09	00		19.	39.73
10	00		21.	48.56
11	00		23.	58.27
12	00		25.	68.87
13	00		27.	80.34
14	00		29.	92.70
15	00		31.	105.94
16	00		33.	120.07
17	00		35.	135.07
18	00		37.	150.96
19	00		39.	167.73

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		18.398	3.69E-07	1.21E+19	-0.70
02	00		01	00		36.795	3.55E-06	8.04E+18	-0.11
03	00		02	00		55.193	1.28E-05	7.24E+18	0.23
04	00		03	00		73.590	3.15E-05	6.90E+18	0.45
05	00		04	00		91.987	6.29E-05	6.70E+18	0.62
06	00		05	00		110.383	1.10E-04	6.58E+18	0.74
07	00		06	00		128.779	1.77E-04	6.50E+18	0.84
08	00		07	00		147.175	2.67E-04	6.44E+18	0.90
09	00		08	00		165.569	3.83E-04	6.39E+18	0.95
10	00		09	00		183.963	5.27E-04	6.35E+18	0.98
11	00		10	00		202.356	7.05E-04	6.32E+18	1.00
12	00		11	00		220.747	9.19E-04	6.30E+18	1.00
13	00		12	00		239.138	1.17E-03	6.27E+18	0.99
14	00		13	00		257.527	1.47E-03	6.26E+18	0.97
15	00		14	00		275.916	1.81E-03	6.24E+18	0.94
16	00		15	00		294.302	2.20E-03	6.23E+18	0.89
17	00		16	00		312.688	2.64E-03	6.22E+18	0.84
18	00		17	00		331.071	3.14E-03	6.21E+18	0.78
19	00		18	00		349.454	3.70E-03	6.20E+18	0.71
20	00		19	00		367.834	4.32E-03	6.19E+18	0.63
21	00		20	00		386.213	5.01E-03	6.18E+18	0.54
22	00		21	00		404.589	5.76E-03	6.17E+18	0.44
23	00		22	00		422.964	6.59E-03	6.17E+18	0.34
24	00		23	00		441.337	7.49E-03	6.16E+18	0.22
25	00		24	00		459.706	8.47E-03	6.16E+18	0.10
26	00		25	00		478.075	9.54E-03	6.15E+18	-0.03
27	00		26	00		496.441	1.07E-02	6.15E+18	-0.16
28	00		27	00		514.804	1.19E-02	6.14E+18	-0.31
29	00		28	00		533.165	1.33E-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.	185.39	01	00		00	00		18.398	3.69E-07	1.21E+19	-0.70
21	00		43.	203.92	02	00		01	00		36.795	3.55E-06	8.04E+18	-0.11
22	00		45.	223.34	03	00		02	00		55.193	1.28E-05	7.24E+18	0.23
23	00		47.	243.64	04	03		03	03		73.577	1.38E-05	3.02E+18	-0.37
24	00		49.	264.82	04	00		03	00		73.590	3.15E-05	6.90E+18	0.45
25	00		51.	286.88	05	03		04	03		91.971	4.03E-05	4.29E+18	-0.04
26	00		53.	309.82	05	00		04	00		91.987	6.29E-05	6.70E+18	0.62
27	00		55.	333.65	06	03		05	03		110.364	8.28E-05	4.94E+18	0.15
28	00		57.	358.36	06	00		05	00		110.383	1.10E-04	6.58E+18	0.74
29	00		59.	383.94	07	06		06	06		128.690	4.69E-05	1.72E+18	-1.59
30	00		61.	410.41	07	03		06	03		128.757	1.45E-04	5.30E+18	0.28
31	00		63.	437.76	07	00		06	00		128.779	1.77E-04	6.50E+18	0.84
32	00		65.	465.99	08	06		07	06		147.072	1.17E-04	2.82E+18	-1.31
33	00		67.	495.10	08	03		07	03		147.149	2.29E-04	5.53E+18	0.37
03	03		7.	69.25	08	00		07	00		147.175	2.67E-04	6.44E+18	0.90
04	03		9.	72.79	09	06		08	06		165.454	2.12E-04	3.55E+18	-1.16
05	03		11.	77.20	09	03		08	03		165.540	3.40E-04	5.68E+18	0.44
06	03		13.	82.50	09	00		08	00		165.569	3.83E-04	6.39E+18	0.95
07	03		15.	88.68	10	06		09	06		183.835	3.37E-04	4.06E+18	-1.06
08	03		17.	95.74	10	03		09	03		183.931	4.80E-04	5.78E+18	0.48
09	03		19.	103.68	10	00		09	00		183.963	5.27E-04	6.35E+18	0.98
10	03		21.	112.51	11	06		10	06		202.214	4.94E-04	4.44E+18	-1.01
11	03		23.	122.22	11	03		10	03		202.320	6.52E-04	5.85E+18	0.50
12	03		25.	132.81	11	00		10	00		202.356	7.05E-04	6.32E+18	1.00
13	03		27.	144.29	12	06		11	06		220.594	6.88E-04	4.72E+18	-0.98
14	03		29.	156.64	12	03		11	03		220.709	8.61E-04	5.90E+18	0.51
15	03		31.	169.88	12	00		11	00		220.747	9.19E-04	6.30E+18	1.00
16	03		33.	184.00	13	06		12	06		238.972	9.20E-04	4.94E+18	-0.97
17	03		35.	199.01	13	03		12	03		239.097	1.11E-03	5.94E+18	0.50
18	03		37.	214.89	13	00		12	00		239.138	1.17E-03	6.27E+18	0.99
19	03		39.	231.66	14	06		13	06		257.349	1.20E-03	5.11E+18	-0.97
20	03		41.	249.31	14	03		13	03		257.483	1.40E-03	5.97E+18	0.48
21	03		43.	267.84	14	00		13	00		257.527	1.47E-03	6.26E+18	0.97
22	03		45.	287.26	15	06		14	06		275.724	1.52E-03	5.24E+18	-0.99
23	03		47.	307.55	15	03		14	03		275.867	1.74E-03	5.99E+18	0.45
24	03		49.	328.73	15	00		14	00		275.916	1.81E-03	6.24E+18	0.94
25	03		51.	350.79	16	06		15	06		294.097	1.89E-03	5.35E+18	-1.02
26	03		53.	373.73	16	03		15	03		294.252	2.12E-03	6.01E+18	0.41
27	03		55.	397.55	16	00		15	00		294.302	2.20E-03	6.23E+18	0.89
28	03		57.	422.25	17	06		16	06		312.471	2.31E-03	5.44E+18	-1.07
29	03		59.	447.84	17	03		16	03		312.633	2.56E-03	6.02E+18	0.36
30	03		61.	474.30	17	00		16	00		312.688	2.64E-03	6.22E+18	0.84
06	06		13.	274.23	18	06		17	06		330.842	2.79E-03	5.52E+18	-1.12
07	06		15.	280.40	18	03		17	03		331.014	3.05E-03	6.03E+18	0.30
08	06		17.	287.46	18	00		17	00		331.071	3.14E-03	6.21E+18	0.78
09	06		19.	295.40	19	06		18	06		349.211	3.32E-03	5.58E+18	-1.19
10	06		21.	304.23	19	03		18	03		349.393	3.60E-03	6.04E+18	0.23
11	06		23.	313.93	19	00		18	00		349.454	3.70E-03	6.20E+18	0.71
12	06		25.	324.52	20	06		19	06		367.579	3.92E-03	5.63E+18	-1.26
13	06		27.	335.99	20	03		19	03		367.770	4.22E-03	6.05E+18	0.15
14	06		29.	348.34	20	00		19	00		367.834	4.32E-03	6.19E+18	0.63
15	06		31.	361.57	21	06		20	06		385.943	4.59E-03	5.68E+18	-1.35
16	06		33.	375.68	21	03		20	03		386.145	4.90E-03	6.05E+18	0.07
17	06		35.	390.68	21	00		20	00		386.213	5.01E-03	6.18E+18	0.54
18	06		37.	406.56	22	06		21	06		404.309	5.32E-03	5.71E+18	-1.44
19	06		39.	423.32	22	03		21	03		404.520	5.65E-03	6.06E+18	-0.03
20	06		41.	440.96	22	00		21	00		404.589	5.76E-03	6.17E+18	0.44
21	06		43.	459.48	23	06		22	06		422.671	6.13E-03	5.75E+18	-1.54
22	06		45.	478.88	23	03		22	03		422.891	6.47E-03	6.06E+18	-0.13
23	06		47.	499.17	23	00		22	00		422.964	6.59E-03	6.17E+18	0.34