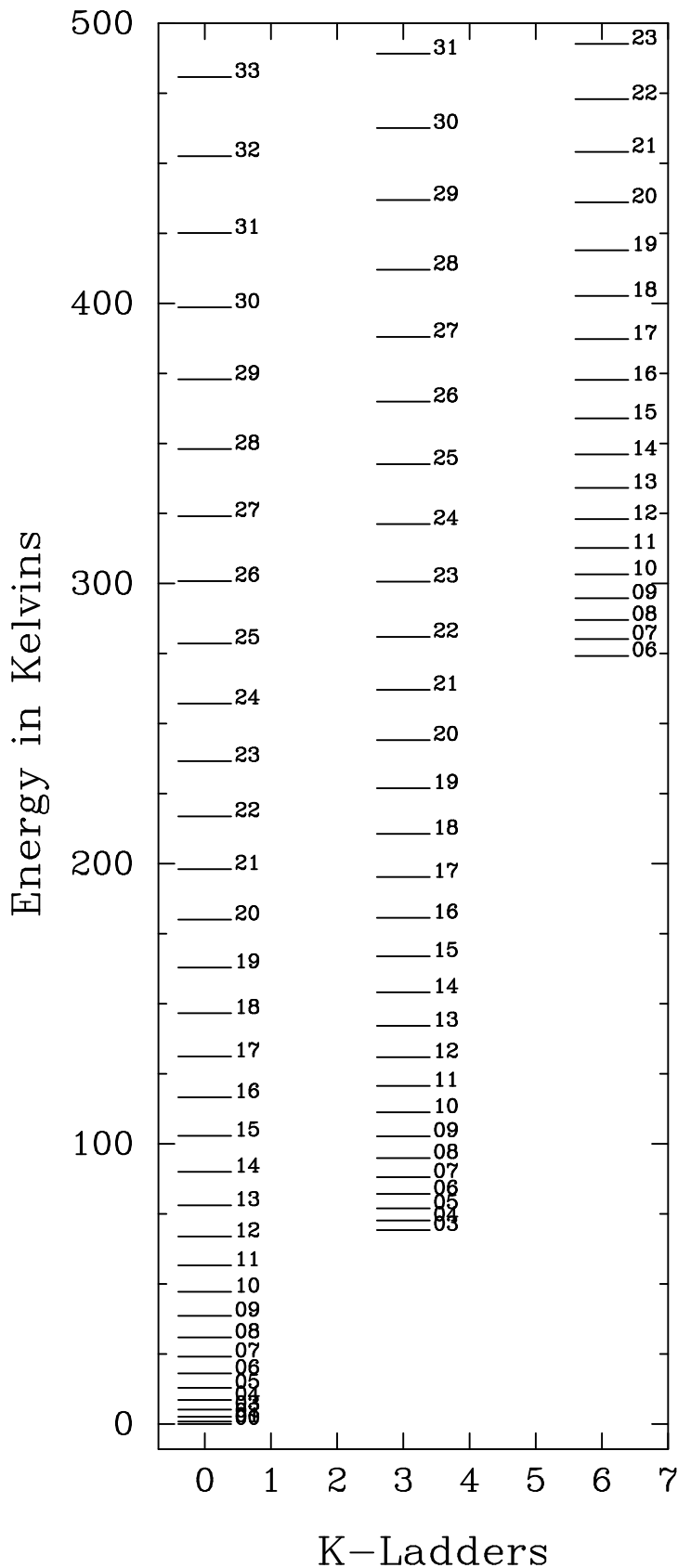


ortho-¹³CH₃CN

B0: 8.93330 GHz C0: 1.5730E+02 GHz Dipole Mom: 3.913 Debye
 DJ: 3.67E-06 GHz DK: 2.85E-03 GHz DJK: 1.68E-04 GHz



Quantum Numbers			Level Degeneracy	Energy Above Ground (Kelvins)
J	K	K1		
00	00		1.	0.00
01	00		3.	0.86
02	00		5.	2.57
03	00		7.	5.14
04	00		9.	8.57
05	00		11.	12.86
06	00		13.	18.01
07	00		15.	24.01
08	00		17.	30.87
09	00		19.	38.58
10	00		21.	47.16
11	00		23.	56.59
12	00		25.	66.88
13	00		27.	78.02
14	00		29.	90.02
15	00		31.	102.88
16	00		33.	116.60
17	00		35.	131.17
18	00		37.	146.60
19	00		39.	162.89

QN(up)			QN(low)	Freq (GHz)	A(U-L)	B(L-U)	Log(Tau) relative
J	K	K1					
01	00		00 00	17.867	3.38E-07	1.21E+19	-0.72
02	00		01 00	35.733	3.25E-06	8.04E+18	-0.12
03	00		02 00	53.599	1.17E-05	7.24E+18	0.21
04	00		03 00	71.465	2.89E-05	6.90E+18	0.44
05	00		04 00	89.331	5.77E-05	6.70E+18	0.61
06	00		05 00	107.196	1.01E-04	6.58E+18	0.73
07	00		06 00	125.061	1.62E-04	6.50E+18	0.83
08	00		07 00	142.925	2.44E-04	6.44E+18	0.90
09	00		08 00	160.789	3.50E-04	6.39E+18	0.95
10	00		09 00	178.651	4.83E-04	6.35E+18	0.98
11	00		10 00	196.513	6.46E-04	6.32E+18	1.00
12	00		11 00	214.374	8.41E-04	6.30E+18	1.00
13	00		12 00	232.233	1.07E-03	6.27E+18	0.99
14	00		13 00	250.092	1.34E-03	6.26E+18	0.97
15	00		14 00	267.949	1.66E-03	6.24E+18	0.94
16	00		15 00	285.806	2.01E-03	6.23E+18	0.90
17	00		16 00	303.660	2.42E-03	6.22E+18	0.85
18	00		17 00	321.513	2.88E-03	6.21E+18	0.79
19	00		18 00	339.364	3.39E-03	6.20E+18	0.73
20	00		19 00	357.214	3.96E-03	6.19E+18	0.65
21	00		20 00	375.063	4.58E-03	6.18E+18	0.57
22	00		21 00	392.909	5.28E-03	6.17E+18	0.47
23	00		22 00	410.753	6.03E-03	6.17E+18	0.37
24	00		23 00	428.595	6.86E-03	6.16E+18	0.26
25	00		24 00	446.436	7.76E-03	6.16E+18	0.15
26	00		25 00	464.273	8.73E-03	6.15E+18	0.02
27	00		26 00	482.109	9.79E-03	6.15E+18	-0.11
28	00		27 00	499.942	1.09E-02	6.14E+18	-0.25
29	00		28 00	517.773	1.21E-02	6.14E+18	-0.39

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.	180.03	01	00		00	00		17.867	3.38E-07	1.21E+19	-0.72
21	00		43.	198.03	02	00		01	00		35.733	3.25E-06	8.04E+18	-0.12
22	00		45.	216.89	03	00		02	00		53.599	1.17E-05	7.24E+18	0.21
23	00		47.	236.60	04	03		03	03		71.453	1.26E-05	3.02E+18	-0.38
24	00		49.	257.17	04	00		03	00		71.465	2.89E-05	6.90E+18	0.44
25	00		51.	278.60	05	03		04	03		89.316	3.69E-05	4.29E+18	-0.05
26	00		53.	300.88	05	00		04	00		89.331	5.77E-05	6.70E+18	0.61
27	00		55.	324.02	06	03		05	03		107.178	7.58E-05	4.94E+18	0.14
28	00		57.	348.01	06	00		05	00		107.196	1.01E-04	6.58E+18	0.73
29	00		59.	372.86	07	06		06	06		124.976	4.30E-05	1.72E+18	-1.60
30	00		61.	398.56	07	03		06	03		125.040	1.33E-04	5.30E+18	0.27
31	00		63.	425.12	07	00		06	00		125.061	1.62E-04	6.50E+18	0.83
32	00		65.	452.54	08	06		07	06		142.829	1.07E-04	2.82E+18	-1.32
33	00		67.	480.81	08	03		07	03		142.901	2.10E-04	5.53E+18	0.37
03	03		7.	69.22	08	00		07	00		142.925	2.44E-04	6.44E+18	0.90
04	03		9.	72.65	09	06		08	06		160.680	1.94E-04	3.55E+18	-1.16
05	03		11.	76.93	09	03		08	03		160.761	3.11E-04	5.68E+18	0.43
06	03		13.	82.08	09	00		08	00		160.789	3.50E-04	6.39E+18	0.95
07	03		15.	88.08	10	06		09	06		178.530	3.09E-04	4.06E+18	-1.07
08	03		17.	94.93	10	03		09	03		178.621	4.39E-04	5.78E+18	0.47
09	03		19.	102.65	10	00		09	00		178.651	4.83E-04	6.35E+18	0.98
10	03		21.	111.22	11	06		10	06		196.380	4.53E-04	4.44E+18	-1.01
11	03		23.	120.65	11	03		10	03		196.480	5.97E-04	5.85E+18	0.50
12	03		25.	130.94	11	00		10	00		196.513	6.46E-04	6.32E+18	1.00
13	03		27.	142.08	12	06		11	06		214.229	6.30E-04	4.72E+18	-0.98
14	03		29.	154.08	12	03		11	03		214.338	7.88E-04	5.90E+18	0.51
15	03		31.	166.94	12	00		11	00		214.374	8.41E-04	6.30E+18	1.00
16	03		33.	180.65	13	06		12	06		232.076	8.43E-04	4.94E+18	-0.97
17	03		35.	195.22	13	03		12	03		232.194	1.02E-03	5.94E+18	0.50
18	03		37.	210.65	13	00		12	00		232.233	1.07E-03	6.27E+18	0.99
19	03		39.	226.94	14	06		13	06		249.923	1.09E-03	5.11E+18	-0.97
20	03		41.	244.08	14	03		13	03		250.050	1.28E-03	5.97E+18	0.49
21	03		43.	262.07	14	00		13	00		250.092	1.34E-03	6.26E+18	0.97
22	03		45.	280.93	15	06		14	06		267.769	1.39E-03	5.24E+18	-0.99
23	03		47.	300.64	15	03		14	03		267.904	1.59E-03	5.99E+18	0.46
24	03		49.	321.20	15	00		14	00		267.949	1.66E-03	6.24E+18	0.94
25	03		51.	342.62	16	06		15	06		285.612	1.73E-03	5.35E+18	-1.02
26	03		53.	364.90	16	03		15	03		285.757	1.94E-03	6.01E+18	0.42
27	03		55.	388.04	16	00		15	00		285.806	2.01E-03	6.23E+18	0.90
28	03		57.	412.02	17	06		16	06		303.455	2.11E-03	5.44E+18	-1.06
29	03		59.	436.87	17	03		16	03		303.609	2.34E-03	6.02E+18	0.38
30	03		61.	462.57	17	00		16	00		303.660	2.42E-03	6.22E+18	0.85
31	03		63.	489.12	18	06		17	06		321.295	2.55E-03	5.52E+18	-1.11
06	06		13.	274.15	18	03		17	03		321.459	2.80E-03	6.03E+18	0.32
07	06		15.	280.15	18	00		17	00		321.513	2.88E-03	6.21E+18	0.79
08	06		17.	287.00	19	06		18	06		339.137	3.04E-03	5.58E+18	-1.17
09	06		19.	294.72	19	03		18	03		339.306	3.30E-03	6.04E+18	0.25
10	06		21.	303.28	19	00		18	00		339.364	3.39E-03	6.20E+18	0.73
11	06		23.	312.71	20	06		19	06		356.972	3.59E-03	5.63E+18	-1.24
12	06		25.	322.99	20	03		19	03		357.154	3.87E-03	6.05E+18	0.18
13	06		27.	334.13	20	00		19	00		357.214	3.96E-03	6.19E+18	0.65
14	06		29.	346.12	21	06		20	06		374.810	4.20E-03	5.68E+18	-1.32
15	06		31.	358.97	21	03		20	03		374.999	4.49E-03	6.05E+18	0.09
16	06		33.	372.68	21	00		20	00		375.063	4.58E-03	6.18E+18	0.57
17	06		35.	387.24	22	06		21	06		392.643	4.87E-03	5.71E+18	-1.41
18	06		37.	402.66	22	03		21	03		392.842	5.18E-03	6.06E+18	0.00
19	06		39.	418.94	22	00		21	00		392.909	5.28E-03	6.17E+18	0.47
20	06		41.	436.07	23	06		22	06		410.476	5.61E-03	5.75E+18	-1.51
21	06		43.	454.06	23	03		22	03		410.684	5.93E-03	6.06E+18	-0.10
22	06		45.	472.90	23	00		22	00		410.753	6.03E-03	6.17E+18	0.37