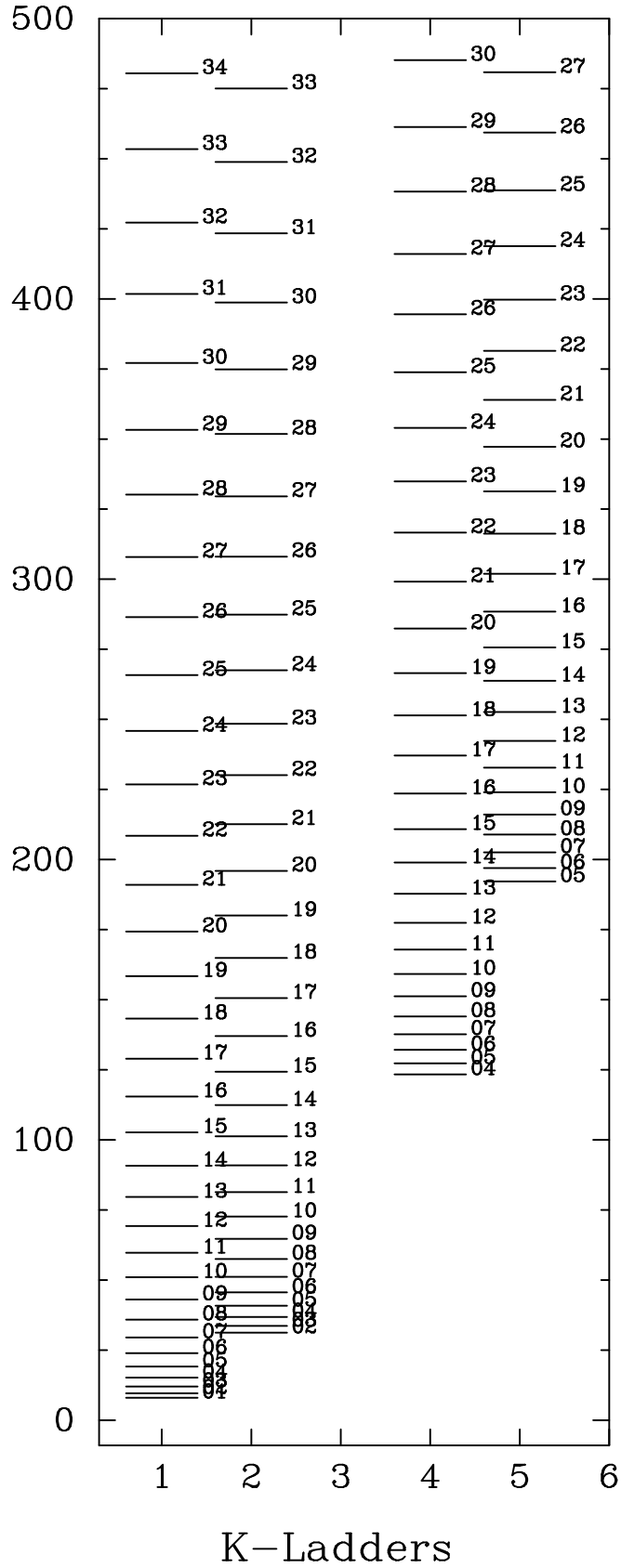
para−$CH_3C^{13}CH$

B0: 8.29020 GHz C0: 1.5859E+02 GHz Dipole Mom: 0.750 Debye
DJ: 2.63E−06 GHz DK: 2.40E−03 GHz DJK: 1.55E−04 GHz



Quantum Numbers J	K	K1	Level Degeneracy	Energy Above Ground (Kelvins)
01	01		6.	8.01
02	01		10.	9.60
03	01		14.	11.99
04	01		18.	15.17
05	01		22.	19.15
06	01		26.	23.92
07	01		30.	29.49
08	01		34.	35.86
09	01		38.	43.02
10	01		42.	50.98
11	01		46.	59.73
12	01		50.	69.28
13	01		54.	79.62
14	01		58.	90.76
15	01		62.	102.69
16	01		66.	115.42
17	01		70.	128.95
18	01		74.	143.27
19	01		78.	158.38
20	01		82.	174.29

QN(up) J	K	K1	QN(low) J	K	K1	Freq (GHz)	A(U−L)	B(L−U)	Log(Tau) relative
02	01		01	01		33.160	7.15E−08	2.22E+17	−0.28
03	01		02	01		49.740	3.06E−07	2.36E+17	0.14
04	01		03	01		66.320	7.94E−07	2.37E+17	0.39
05	01		04	01		82.899	1.62E−06	2.36E+17	0.57
06	01		05	01		99.478	2.89E−06	2.35E+17	0.70
07	01		06	01		116.057	4.67E−06	2.34E+17	0.80
08	01		07	01		132.635	7.06E−06	2.33E+17	0.87
09	01		08	01		149.213	1.02E−05	2.32E+17	0.93
10	01		09	01		165.790	1.40E−05	2.31E+17	0.97
11	01		10	01		182.367	1.88E−05	2.30E+17	0.99
12	01		11	01		198.943	2.45E−05	2.30E+17	1.00
13	01		12	01		215.518	3.13E−05	2.29E+17	1.00
14	01		13	01		232.092	3.92E−05	2.29E+17	0.99
15	01		14	01		248.666	4.84E−05	2.28E+17	0.96
16	01		15	01		265.238	5.89E−05	2.28E+17	0.93
17	01		16	01		281.810	7.08E−05	2.28E+17	0.89
18	01		17	01		298.380	8.42E−05	2.27E+17	0.84
19	01		18	01		314.949	9.92E−05	2.27E+17	0.78
20	01		19	01		331.518	1.16E−04	2.27E+17	0.71
21	01		20	01		348.085	1.34E−04	2.27E+17	0.63
22	01		21	01		364.650	1.55E−04	2.26E+17	0.55
23	01		22	01		381.214	1.77E−04	2.26E+17	0.46
24	01		23	01		397.777	2.01E−04	2.26E+17	0.36
25	01		24	01		414.338	2.28E−04	2.26E+17	0.26
26	01		25	01		430.898	2.56E−04	2.26E+17	0.14
27	01		26	01		447.455	2.87E−04	2.26E+17	0.02
28	01		27	01		464.011	3.20E−04	2.25E+17	−0.10
29	01		28	01		480.566	3.56E−04	2.25E+17	−0.24
30	01		29	01		497.118	3.94E−04	2.25E+17	−0.38

Quantum Numbers J K K1	Level Degeneracy	Energy Above Ground (Kelvins)	QN(up) J K K1	QN(low) J K K1	Freq (GHz)	A(U−L)	B(L−U)	Log(Tau relative
21 01	86.	191.00	02 01	01 01	33.160	7.15E−08	2.22E+17	−0.28
22 01	90.	208.50	03 02	02 02	49.737	1.91E−07	1.48E+17	−0.22
23 01	94.	226.79	03 01	02 01	49.740	3.06E−07	2.36E+17	0.14
24 01	98.	245.88	04 02	03 02	66.316	6.35E−07	1.90E+17	0.14
25 01	102.	265.77	04 01	03 01	66.320	7.94E−07	2.37E+17	0.39
26 01	106.	286.45	05 04	04 04	82.876	6.09E−07	8.87E+16	−0.64
27 01	110.	307.92	05 02	04 02	82.894	1.42E−06	2.07E+17	0.35
28 01	114.	330.19	05 01	04 01	82.899	1.62E−06	2.36E+17	0.57
29 01	118.	353.25	06 05	05 05	99.434	9.06E−07	7.39E+16	−1.06
30 01	122.	377.11	06 04	05 04	99.450	1.65E−06	1.34E+17	−0.33
31 01	126.	401.76	06 02	05 02	99.473	2.64E−06	2.15E+17	0.50
32 01	130.	427.21	06 01	05 01	99.478	2.89E−06	2.35E+17	0.70
33 01	134.	453.45	07 05	06 05	116.005	2.33E−06	1.17E+17	−0.75
34 01	138.	480.48	07 04	06 04	116.024	3.21E−06	1.61E+17	−0.15
02 02	10.	31.24	07 02	06 02	116.051	4.38E−06	2.19E+17	0.61
03 02	14.	33.62	07 01	06 01	116.057	4.67E−06	2.34E+17	0.80
04 02	18.	36.81	08 05	07 05	132.576	4.37E−06	1.44E+17	−0.59
05 02	22.	40.79	08 04	07 04	132.598	5.38E−06	1.77E+17	−0.03
06 02	26.	45.56	08 02	07 02	132.628	6.73E−06	2.22E+17	0.70
07 02	30.	51.13	08 01	07 01	132.635	7.06E−06	2.33E+17	0.87
08 02	34.	57.49	09 05	08 05	149.146	7.10E−06	1.62E+17	−0.48
09 02	38.	64.65	09 04	08 04	149.171	8.25E−06	1.88E+17	0.06
10 02	42.	72.61	09 02	08 02	149.205	9.78E−06	2.23E+17	0.76
11 02	46.	81.36	09 01	08 01	149.213	1.02E−05	2.32E+17	0.93
12 02	50.	90.91	10 05	09 05	165.716	1.06E−05	1.75E+17	−0.41
13 02	54.	101.25	10 04	09 04	165.744	1.19E−05	1.96E+17	0.11
14 02	58.	112.39	10 02	09 02	165.781	1.36E−05	2.24E+17	0.80
15 02	62.	124.32	10 01	09 01	165.790	1.40E−05	2.31E+17	0.97
16 02	66.	137.05	11 05	10 05	182.285	1.50E−05	1.84E+17	−0.36
17 02	70.	150.58	11 04	10 04	182.316	1.64E−05	2.01E+17	0.15
18 02	74.	164.90	11 02	10 02	182.357	1.83E−05	2.25E+17	0.82
19 02	78.	180.01	11 01	10 01	182.367	1.88E−05	2.30E+17	0.99
20 02	82.	195.92	12 05	11 05	198.854	2.04E−05	1.91E+17	−0.33
21 02	86.	212.62	12 04	11 04	198.887	2.19E−05	2.06E+17	0.17
22 02	90.	230.12	12 02	11 02	198.932	2.40E−05	2.25E+17	0.83
23 02	94.	248.42	12 01	11 01	198.943	2.45E−05	2.30E+17	1.00
24 02	98.	267.51	13 05	12 05	215.422	2.68E−05	1.96E+17	−0.32
25 02	102.	287.39	13 04	12 04	215.458	2.85E−05	2.09E+17	0.17
26 02	106.	308.07	13 02	12 02	215.506	3.08E−05	2.25E+17	0.83
27 02	110.	329.54	13 01	12 01	215.518	3.13E−05	2.29E+17	1.00
28 02	114.	351.81	14 05	13 05	231.987	3.44E−05	2.01E+17	−0.32
29 02	118.	374.87	14 04	13 04	232.027	3.62E−05	2.11E+17	0.17
30 02	122.	398.73	14 02	13 02	232.079	3.86E−05	2.25E+17	0.82
31 02	126.	423.38	14 01	13 01	232.092	3.92E−05	2.29E+17	0.99
32 02	130.	448.82	15 05	14 05	248.555	4.32E−05	2.04E+17	−0.34
33 02	134.	475.06	15 04	14 04	248.597	4.51E−05	2.13E+17	0.15
04 04	18.	123.34	15 02	14 02	248.652	4.78E−05	2.25E+17	0.80
05 04	22.	127.31	15 01	14 01	248.666	4.84E−05	2.28E+17	0.96
06 04	26.	132.09	16 05	15 05	265.120	5.33E−05	2.06E+17	−0.37
07 04	30.	137.65	16 04	15 04	265.164	5.54E−05	2.14E+17	0.12
08 04	34.	144.02	16 02	15 02	265.223	5.82E−05	2.25E+17	0.77
09 04	38.	151.18	16 01	15 01	265.238	5.89E−05	2.28E+17	0.93
10 04	42.	159.13	17 05	16 05	281.684	6.48E−05	2.09E+17	−0.40
11 04	46.	167.88	17 04	16 04	281.730	6.71E−05	2.16E+17	0.08
12 04	50.	177.43	17 02	16 02	281.794	7.01E−05	2.25E+17	0.73
13 04	54.	187.77	17 01	16 01	281.810	7.08E−05	2.28E+17	0.89
14 04	58.	198.90	18 05	17 05	298.246	7.78E−05	2.10E+17	−0.45
15 04	62.	210.83	18 04	17 04	298.296	8.02E−05	2.17E+17	0.03
16 04	66.	223.56	18 02	17 02	298.364	8.34E−05	2.25E+17	0.68
17 04	70.	237.08	18 01	17 01	298.380	8.42E−05	2.27E+17	0.84