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A Spectral Atlas of the ν_{12} Fundamental of $^{13}C^{12}CH_6$ in the 12μm Region

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Abstract

The recent discovery of the minor isotopomer of ethane, $^{13}C^{12}CH_6$, in the planetary atmospheres of Jupiter and Neptune, added ethane to the molecules which can be used to determine isotopic $^{12}C/^{12}C$ ratios for the jovian planets. The increased spectral resolution and coverage of the IR and far–IR instruments to be carried on the Cassini mission to Saturn and Titan may enable the detection of the minor isotopomer. Accurate frequency and cross–section measurements of the ν_{12} fundamental under controlled laboratory condition are important to interpret current and future planetary spectra. High resolution spectra of the minor isotopomer $^{13}C^{12}CH_6$ have been recorded in the 12.2 μm region using the Kitt Peak Fourier Transform (FTS) and the Goddard Tunable Diode Laser spectrometer (TDL). In a global fit to 19 molecular constants in a symmetric top Hamiltonian, transition frequencies of the ν_{12} fundamental ranging up to $J = 35$ and $K = 20$ have been determined with a standard deviation of less than 0.0005 cm^{-1}. From selected line intensity measurements, a vibrational dipole moment for the ν_{12} fundamental has been derived. Observed and calculated spectra covering the region from 740cm^{-1} to 910cm^{-1} are presented. A compilation of transition frequencies, line intensities, and lower state energies are included for general use in the astronomical community.

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Introduction

The current spectroscopic study of the minor isotopomer $^{13}C^{12}CH_6$ is motivated by its recent discovery as a constituent in the atmosphere of Jupiter by Wiedemann *et al.(1)*. Employing a cryogenic echelle array spectrometer, Orton *et al.(2)* identified traces of ^{13}C–ethane in Neptune's atmosphere. In both cases a near–terrestrial isotopic $^{12}C/^{13}C$ ratio has been found*(1,2)*. Laboratory measurements of frequencies and intensities are important for future identification and atmospheric modeling of $^{13}C^{12}CH_6$ in the outer planetary atmospheres using for instance high resolution heterodyne remote sensing.

Regular ethane and its deuterated species have been studied in some detail in the mid– and far–infrared*(3–9)*. The minor isotopomer $^{13}C^{12}CH_6$ has been investigated in the 2700 cm^{-1} region of the $\nu_3 + \nu_4$ overtone (equivalent to $\nu_2 + \nu_6$ in normal ethane) by Lafferty *et al.(10)*. More recently, in studies of the 12μm region Kurtz *et al.(11)* obtained the ratio of the integrated intensity of the ^rQ_o–branch of the ν_{12} band of $^{13}C^{12}CH_6$ with respect to the equivalent ν_9 band of normal ethane. These studies were based on high resolution (0.0025 cm^{-1}) data recorded with the 1 m McMath FTS instrument at the National Solar Observatory in Kitt Peak, Arizona. The same laboratory data have been analyzed to assign rotation–torsional transitions in the ν_{12} fundamental and to determine ground state rotational constants from lower state combination differences *(12)*.

More recently, the analysis has been extended to determine upper state constants for the ν_{12} fundamental of the minor isotopomer and to derive barriers to internal rotation in the ground and vibrational excited state *(13)*. In this publication, a complete line by line compilation of calculated frequencies, lower state energies, and line strengths are published. From the molecular parameters a spectral atlas has been produced covering the region from 740 to 910 cm^{-1}.

Experimental Details

Several spectra at room and typical planetary temperatures (101K and 161K) were recorded using the 1–m Fourier transform spectrometer at the Kitt Peak National Solar Observatory*(11,12)*. This instrument was operated in a double–pass configuration yielding a spectral resolution of 0.0025 cm^{-1}*(14)*. The $^{13}C^{12}CH_6$ sample was provided in a 99% purified form by Matheson Co. No traces of the major isotopomer have been found in the unapodized FTS spectra. Calibration to absolute wavenumbers was done using well–isolated P– and R–branch lines of the ν_2^{1e} and $2\nu_2^{0e}$ band of N_2O at 580 cm^{-1} and 1168 cm,$^{-1}$ respectively*(12)*.

Details of the tunable diode laser system at NASA Goddard Space Flight Center can be found in Ref. *(15)*. Several Q–branches ranging from $K\Delta K = -6$ to 6 were measured to obtain complementary information on observed torsional splittings *(13)*. These spectra were recorded with gas pressures of $p = 1.5$ Torr and an absorption cell length of $\ell = 30$ cm. Relative wavenumber calibrations were obtained using a 3 inch solid Ge–etalon (0.01623 cm^{-1} fringe spacing). A total of 68 splittings from the diode laser observations (Table II)

Table I. *Molecular constants of* $^{13}C^{12}CH_6$ *in* cm^{-1}. C_σ is the torsional Coriolis interaction parameter connecting the $v_{12} = 1$ state with the $v_6 = 3$ state. σ_F is the weighted standard deviation of the overall fit. 2307 transitions and torsional splitting values survived the fit. For convenience parameters are also given in Hz.

ν_o	820.931 394(42)		
B_o	0.649 764 9(91)	19 479.46(27)	MHz
A_o	2.668 52†	80 000.2†	MHz
D_o^J	0.993 85(67)×10^{-6}	29.795(20)	kHz
D_o^{JK}	2.608 8(87)×10^{-6}	78.08(21)	kHz
D_o^K	9.54×10^{-6}††	286††	kHz
α_{12}^B	1.296 18(50)×10^{-3}	38.858(15)	MHz
α_{12}^A	-7.796 4(11)×10^{-3}	-233.730(33)	MHz
β_{12}^J	3.07(10)×10^{-9}	92.0(39)	Hz
β_{12}^{JK}	-2.063(81)×10^{-8}	-618(24)	Hz
β_{12}^K	-1.868(20)×10^{-7}	-5600(60)	Hz
$(A\zeta)_{12}^z$	0.696 191(18)	20 871.28(54)	MHz
η_{12}^J	-2.024(21)×10^{-6}	-60.68(63)	kHz
η_{12}^K	2.391 1(30)×10^{-5}	716.83(90)	kHz
q_{12}^o	-1.726 70(83)×10^{-3}	-51.765(25)	MHz
q_{12}^J	9.07(88)×10^{-9}	272(26)	Hz
$V_6^{(0)}$	1026.888(79)	30 785.3(24)	GHz
$V_6^{(12)}$	1088.61(77)	32 635(24)	GHz
F_{1J}	-1.542(12)×10^{-2}	-462.3(36)	MHz
F_{1K}	-0.947(11)×10^{-2}	-283.9(33)	MHz
C_σ	3.651 0(28)×10^{-2}	1094.54(84)	MHz
σ_F	5.5×10^{-4}	16MHz	
data	2307/2447		

† Moazzen-Ahmadi *et al.(9)*
†† Duncan *et al.(16)*

were added to the FTS data in the global fit to determine molecular constants for ν_{12}.

Global Least Squares Fit

An iterative bi–weighted non–linear least squares fit of the upper and lower state energies has been carried out simultaneously. The upper state Hamiltonian included off–diagonal ℓ–resonance terms within the $v_{12} = 1$ state and off–diagonal torsional Coriolis interaction terms connecting with the excited torsional state of $v_6 = 3$. The results of the global fit are summarized in Table I *(13)*. A more detailed account of the fitting procedure and the Hamiltonian used can be found in Ref. *(13)*.

Of the 21 parameters employed in the upper and lower state Hamiltonian, the rotational constants A_o and D_o^K have been fixed to 2.66852 cm^{-1} *(9)* and 9.54×10^{-6} cm^{-1} *(16)*, respectively. The rotation–torsional constants F_{1J} and F_{1K} in the $v_{12} = 1$ state were fixed to the ground state value. Observed torsional splittings recorded with the TDL spectrometer have been weighted by an extra factor of 4 corresponding to the enhancement in spectral resolution over the FTS data.

The intrinsic and unperturbed torsional splitting between the components of the torsional doublets as calculated from the upper and lower state barriers is 1.53×10^{-3} cm,$^{-1}$ which is not resolved in the current FTS data. For $K = 3n$ transitions with relative intensities of 2:1, both peaks of the doublets can be measured from the FTS data if they are separated by more than about 4.5×10^{-3} cm^{-1} and for $K \neq 3n$ (4:1 relative intensities) by more than 7.0×10^{-3} cm.$^{-1}$ Therefore, most torsional doublets could not be resolved, except near the crossing region which occurs at $K\Delta K = -18$. Most transition frequencies, particularly in the R–branches ($\Delta K = 1$) and as J approaches K, represent rather an average of the doublets. In order to avoid "frequency pulling" *(5)*, transition frequencies of the $K = 3n$ series have been calculated using a weighted average of the two calculated frequencies of the doublets. The weights were chosen according to their statistical weights. Simulated spectra showed that such a weighting scheme yields a good approximation. In cases where one of the components of the doublets is rather weak, the average of the frequencies tends to be closer to the frequency of the strong component and therefore observed frequencies of unresolved $K \neq 3n$ torsional doublets (with 4:1 relative intensity ratio) have been assigned to the stronger component of the doublet.

Intensity Analysis

Forty–two individual lines of the ν_{12} band observed with the FTS have been measured to retrieve their intensities. Only those lines whose torsional components were sufficiently separated (mostly $^pP_K(J)$ lines) permitting a measurement of both components were included in the analysis. Since the intensity retrieval is constrained to a limited region, no attempts were made to determine the F–factors. Some of the very weak intensities have been discarded if their peak strength was below 10%. The lines were fitted to a convolution

Table II. *Torsional Splittings Δ_{obs} measured with the TDL for the ν_{12} fundamental of $^{13}C^{12}CH_6$.*

ΔK	ΔJ	K	J	Δ_{obs} [cm^{-1}]	o–c [cm^{-1}]	ΔK	ΔJ	K	J	Δ_{obs} [cm^{-1}]	o–c [cm^{-1}]
-1	0	6	12	0.00532	0.00029	-1	0	2	17	0.00654	0.00028
-1	0	6	13	0.00607	0.00035	-1	0	2	18	0.00751	0.00076
-1	0	6	14	0.00674	0.00030	-1	0	2	19	0.00696	-0.00029
-1	0	6	15	0.00750	0.00030	1	0	1	10	0.00283	0.00046
-1	0	6	16	0.00848	0.00049	1	0	2	9	0.00263	0.00013
-1	0	6	17	0.00915	0.00033	1	0	2	10	0.00309	0.00036
-1	0	6	18	0.00991	0.00024	1	0	2	11	0.00341	0.00042
-1	0	6	19	0.01049	-0.00006	1	0	2	12	0.00371	0.00044
-1	0	4	17	0.00852	0.00107	1	0	3	12	0.00240	-0.00007
-1	0	4	18	0.00828	0.00018	1	0	3	13	0.00286	0.00022
-1	0	4	19	0.00893	0.00016	1	0	3	14	0.00295	0.00013
-1	0	4	20	0.00971	0.00026	1	0	3	15	0.00281	-0.00021
-1	0	4	21	0.01023	0.00007	1	0	3	16	0.00311	-0.00011
-1	0	4	22	0.01101	0.00014	1	0	3	17	0.00334	-0.00010
-1	0	3	10	0.00247	-0.00015	1	0	3	18	0.00379	0.00012
-1	0	3	11	0.00295	0.00011	1	0	3	19	0.00368	-0.00024
-1	0	3	12	0.00320	0.00012	1	0	3	21	0.00415	-0.00029
-1	0	3	13	0.00354	0.00020	1	0	3	22	0.00457	-0.00015
-1	0	3	14	0.00359	-0.00002	1	0	5	16	0.00300	0.00011
-1	0	3	15	0.00412	0.00023	1	0	5	17	0.00325	0.00018
-1	0	3	17	0.00398	-0.00051	1	0	5	18	0.00320	-0.00007
-1	0	3	18	0.00457	-0.00025	1	0	5	19	0.00361	0.00013
-1	0	3	19	0.00517	0.00002	1	0	5	20	0.00351	-0.00019
-1	0	3	20	0.00512	-0.00036	1	0	5	21	0.00357	-0.00035
-1	0	3	21	0.00540	-0.00043	1	0	6	10	0.00240	0.00031
-1	0	3	22	0.00577	-0.00042	1	0	6	11	0.00275	0.00048
-1	0	3	23	0.00584	-0.00071	1	0	6	12	0.00287	0.00040
-1	0	3	24	0.00595	-0.00096	1	0	6	13	0.00312	0.00044
-1	0	3	25	0.00651	-0.00077	1	0	6	14	0.00353	0.00063
-1	0	2	12	0.00427	0.00021	1	0	6	15	0.00364	0.00050
-1	0	2	13	0.00488	0.00042	1	0	6	16	0.00393	0.00053
-1	0	2	14	0.00538	0.00050	1	0	6	18	0.00441	0.00046
-1	0	2	15	0.00562	0.00029	1	0	6	19	0.00468	0.00043
-1	0	2	16	0.00601	0.00022	1	0	6	20	0.00506	0.00050

Table III. *Measured Line Intensities of the ν_{12} band (822 cm^{-1}) of $^{13}C^{12}CH_6$ at 294K.*

J	ΔJ	K	ΔK	σ	ν_i [cm^{-1}]	$S_i \times 10^3$ [cm^{-2}atm^{-1}]	(o–c)/o %	W_i
24	-1	8	-1	2	769.1331	3.664	-4.1	1.010
22	-1	9	-1	3	769.3221	4.289	-3.7	1.006
18	-1	11	-1	1	769.7383	5.201	-3.1	1.001
24	-1	6	-1	0	774.1979	4.520	0.8	1.016
22	-1	7	-1	1	774.3451	5.187	-3.8	1.010
20	-1	8	-1	2	774.5033	5.901	-5.5	1.005
18	-1	9	-1	3	774.6752	7.217	3.8	1.003
18	-1	9	-1	1	774.6813	3.808	9.0	1.002
16	-1	10	-1	2	774.8591	7.580	1.4	1.001
15	-1	8	-1	2	781.1717	9.667	-2.5	1.002
19	-1	4	-1	2	786.0276	8.304	1.0	1.017
22	-1	2	-1	2	787.1992	6.327	3.5	1.062
18	-1	4	-1	2	787.3652	8.625	-3.6	1.015
21	-1	2	-1	2	788.5452	6.427	-4.6	1.056
17	-1	4	-1	2	788.7006	9.790	1.5	1.013
18	0	2	-1	2	815.8488	14.295	2.5	0.944
18	0	2	-1	0	815.8856	3.517	1.0	0.943

$R_v^2 = 7.45(29) \times 10^{-4}$ (Debye)^2

$S_{\text{band}} = \sum_i S_i = 15.93(62)$ cm^{-2}atm^{-1}@294K

of a Doppler spectrum in absorption with an appropriate FTS instrument function whose amplitude modulation function of the interferogram is a cosine truncated by the length of the mirror scan *(17)*.

The retrieved intensities (Table III) were subjected to a least squares fit to the usual equation

$$S_i = \frac{8\pi^3}{3hc}\frac{L_o\,T_o}{T\,p_o}\gamma_a\; g_{JK}\,\frac{\exp(-E''_{vrt}/kT)}{Q_vQ_rQ_t}\left[1-\exp\left(-\frac{hc\nu_i}{kT}\right)\right] L_r\,R_v^2\,W_i, \qquad (1)$$

where S_i is the line intensity in units of cm^{-2}atm;$^{-1}$ h Planck's constant; k the Boltzmann constant; c the speed of light; L_o Loschmidt's number at standard temperature T_o=273.15 K and pressure p_o=1 atm; T the ambient temperature; E''_{vrt} the lower state energy, and Q_v, Q_r, and Q_t are the vibrational, rotational, and torsional partition function, respectively. γ_a is the isotopic abundance of the species which equals 1 for a purified sample.

The last three terms in Eq. (1) represent the effective square dipole moment, where R_v^2 is the square vibrational transition moment and L_r the Hönl-London factor*(18)*. The perturbation factor W_i is a correction factor to the rigid–rotor intensity caused by combined ℓ–resonance within the $v_{12} = 1$ state and the torsional Coriolis interaction between $v_{12} = 1$ and $v_6 = 3$. These factors have been calculated by transforming the rotational transition moment matrix using the unitary eigenvector matrix which also diagonalizes the upper state Hamiltonian. Values for W_i are obtained after squaring and normalizing to the square rotational transition moment L_r in the unperturbed limit. Due to the mixing effects, ${}^pP$, ${}^rQ$, and ${}^pR$ type transitions are enhanced in their intensities, while ${}^rP$, ${}^pQ$, and ${}^rR$ transitions are depleted.

The partition functions at T=294 K were calculated to be: $Q_r = 18,613$, $Q_v =$ 1.058, and Q_t=4.063. The fitted square vibrational dipole moment was $R_v^2 = 7.45(29) \times 10^{-4}$ D^2, which is about 11% less than the value derived from the major isotopomer*(5)*. This result is also in agreement with earlier analysis of the integrated strength of the ${}^rQ_o$ branch*(11)*.

The Line Atlas

In Appendix A calculated line parameters for transitions of the ν_{12} fundamental are listed. The line parameters for each transition are the rotational quantum numbers $J, K, \Delta K$, and ΔJ and the torsional quantum number σ, calculated frequency ν_i in cm^{-1}, observed minus calculated frequency (o–c) given in the last digits, lower state (ground state) energy E_i in cm^{-1}, line intensity in cm^{-2}atm^{-1}@296K, and the perturbation factor W_i. Line parameters have been calculated up to K = 20 and J = 35. The intensities have been converted from 294 K to the standard temperature T = 296 K using the exact expression in Eq. (1). For general conversion to other temperatures, for instance planetary temperatures, values for the torsional partition function have been calculated in the range of 100 K to 400 K using a ground state torsional barrier height of 1026.88cm^{-1} (Table IV).

The observed FTS spectrum of $^{13}C^{12}CH_6$ is shown in Appendix B. The experimental conditions were p = 1.05 Torr, ℓ = 150 cm, and T =294 K. Below the observed spectrum in each panel the calculated spectrum under the same experimental condition is shown in two ways, first on a scale from 0% to 100% transmission and, secondly, from 90% to 100% transmission. The calculated Doppler spectra has been properly convolved with an appropriate instrumental profile as outlined as follows.

The approximate FTS apparatus function in interferogram space due to the aperture

Table IV. *The torsional partition function Q_t as a function of temperature T.*

T [K]	Q_t	T [K]	Q_t	T [K]	Q_t
100	3.049	200	3.456	300	4.105
110	3.072	210	3.513	310	4.178
120	3.100	220	3.572	320	4.251
130	3.132	230	3.633	330	4.326
140	3.168	240	3.696	340	4.401
150	3.209	250	3.761	350	4.477
160	3.252	260	3.827	360	4.553
170	3.299	270	3.895	370	4.631
180	3.349	280	3.964	380	4.709
190	3.401	290	4.034	390	4.787
		296	4.077	400	4.866

effect can be written as *(17)*

$$A(\delta) = \cos\left(b\frac{\delta}{L}\right); \qquad |\delta| \leq L, \tag{2}$$

where δ is the optical path difference in the two arms of the interferometer and L the maximum optical path difference. The form of Eq. (2) introduces a self-apodization in the observed spectra. The Fourier transform of $A(\delta)$ is then given by

$$\begin{aligned} A(\nu) &= L\left\{\frac{\sin(2\pi\nu L + b)}{2\pi\nu L + b} + \frac{\sin(2\pi\nu L - b)}{2\pi\nu L - b}\right\} \\ &= L\left\{\mathrm{sinc}(2\pi\nu L + b) + \mathrm{sinc}(2\pi\nu L - b)\right\} \end{aligned} \tag{3}$$

The parameters used were $L = 173$ cm and $b = 0.818$ as determined from a least squares fit of the line profiles. This apparatus function was convolved with a calculated Doppler spectrum to simulate the observed FTS spectra, i.e. the normalized transmission τ at frequency ν is

$$\tau(\nu) = \int_{-\infty}^{\infty} d\nu'\, A(\nu' - \nu)\, \exp\left(-\sum_i S_i\, f(\nu' - \nu_i) x\right) \tag{4}$$

S_i is the line strength of the transition at frequency ν_i, $x = p\ell$ the optical density, and $f(\nu - \nu_i)$, the unit area line profile, here a Doppler profile. The convolution integral has been calculated by numerical summation with proper truncation to a finite sum of intensities, the apparatus function, and line shapes in the far wing.

The spectra shown in Appendix B extends from 740cm^{-1} to 910cm^{-1}. The top spectrum shows the observed FTS spectrum, the middle and bottom trace the calculated spectrum in different scales. Observed lines which do not appear in the calculated spectra belong either to the $\nu_6 + \nu_{12} \leftarrow \nu_6$ vibration–torsional hotband, which is equivalent to the $\nu_4 + \nu_9 \leftarrow \nu_4$ band of normal ethane, or are outside the range of calculated quantum numbers.

References

[1] G. Wiedemann, G.L. Bjoraker, and D.E. Jennings, *Astrophys. J.* **383**, L29 (1991).

[2] G.S. Orton, J.H. Lacy, J.M. Achtermann, P. Parmar, and W.E. Blass, *Icarus* **100**, 541 (1992).

[3] S.J. Daunt, W.E. Blass, G.W. Halsey, K. Fox, R.J. Lovell, H. Flicker, and J.D. King, *J. Mol. Spectrosc.* **86**, 327 (1981).

[4] J. Susskind, D. Reuter, D.E. Jennings, S.J. Daunt, W.E. Blass, and G.W. Halsey, *J. Chem. Phys.* **77**, 2728 (1982).

[5] L. Henry, A. Valentin, W.J. Lafferty, J.T. Hougen, V. Malathy Devi, P.P. Das, K.N. Rao, *J. Mol. Spectrosc.* **100**, 260 (1983).

[6] S.J. Daunt, A.K. Atakan, W.E. Blass, G.W. Halsey, D.E. Jennings, D.C. Reuter, J. Susskind, and J.W. Brault, *Astrophys. J.* **280**, 921 (1984).

[7] N. Moazzen-Ahmadi, H.P. Gush, M. Halpern, H. Jagannath, A. Leung, and I. Ozier, *J. Chem. Phys.* **88**, 563 (1988).

[8] W.E. Blass, G.W. Halsey, J. Susskind, D.C. Reuter, and D.E. Jennings, *J. Mol. Spectrosc.* **141**, 334 (1990).

[9] N. Moazzen-Ahmadi, A.R.W. Kellar, J.W.C. Johns, and I. Ozier, *J. Chem. Phys.* **97**, 3981 (1992).

[10] W.J. Lafferty and E.K. Plyler, *J. Res. Nat. Bur. Stand. A* **67**, 225 (1963).

[11] J. Kurtz, D.C. Reuter, D.E. Jennings, and J.J. Hillman, *J. Geophys. Res.* **96**, 17489 (1991).

[12] M. Weber, W.E. Blass, D.C. Reuter, D.E. Jennings, and J.J. Hillman, *J. Mol. Spectrosc.* **159**, 388 (1993).

[13] M. Weber, D.C. Reuter, J.M. Sirota, W.E. Blass, and J.J. Hillman, *J. Chem. Phys.*, To be Published (1994).

[14] D.E. Jennings, R. Hubbard, J.W. Brault, *Appl. Opt.* **24**, 3438 (1985).

[15] J.M. Sirota, D.C. Reuter, and M.J. Mumma, *Appl. Opt.* **32**, 2117 (1993).

[16] J.L. Duncan, R.A. Kelly, G.D. Nivellini, and F. Tullini, *J. Mol. Spectrosc.* **98**, 87 (1983).

[17] V. Dana and A. Valentin, *Appl. Opt.* **27**, 4450 (1988).

[18] H.C. Allen Jr., P.C. Cross, *Molecular Vib-Rotors*,Wiley and Sons, New York–London, 1963.

Appendix A

Table of Calculated ν_{12} Transitions of $^{13}C^{12}CH_6$

Legend:

K, J	Lower state rotational quantum number, i.e. $K,'' J''$
$\Delta K, \Delta J$	Difference in rotational quantum number of upper and lower state, i.e. $\Delta K = K' - K,''$ $\Delta J = J' - J.''$ The ℓ quantum number of the upper state can be deduced from the selction rules $\Delta K = \Delta \ell$
σ	Torsional quantum number with selection rule $\Delta\sigma = 0$
ν_i	Calculated transition frequency in cm^{-1}
o–c	Observed minus calculated frequency in the last five digits. Transitions marked with an asterisk (*) were excluded from the global fit
E_i''	Lower state energy in cm^{-1}
S_i	Line intensity in $cm^{-2}atm^{-1}$@296K
W_i	Intensity perturbation factor (dimensionless)

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	-1	20	35	0	725.23929		1620.005	.7592E-05	.910
-1	-1	20	35	2	725.60270		1620.011	.3346E-04	1.002
-1	-1	20	34	0	726.65151		1574.847	.9622E-05	.930
-1	-1	20	34	2	726.95814		1574.853	.4149E-04	1.002
-1	-1	19	35	3	727.87297		1541.721	.1187E-04	1.003
-1	-1	19	35	1	727.93442		1541.715	.4725E-04	.998
-1	-1	20	33	0	728.05260		1530.971	.1205E-04	.945
-1	-1	20	33	2	728.31208		1530.977	.5113E-04	1.002
-1	-1	19	34	3	729.22970		1496.556	.1471E-04	1.003
-1	-1	19	34	1	729.28888		1496.550	.5849E-04	.997
-1	-1	20	32	0	729.44467		1488.376	.1495E-04	.957
-1	-1	20	32	2	729.66451		1488.382	.6256E-04	1.001
-1	-1	18	35	2	730.17769		1467.415	.3302E-04	1.004
-1	-1	19	33	3	730.58492		1452.673	.1811E-04	1.003
-1	-1	19	33	1	730.64165		1452.667	.7203E-04	.997
-1	-1	18	35	0	730.64483		1467.409	.5463E-04	.830
-1	-1	20	31	0	730.82931		1447.064	.1839E-04	.967
-1	-1	20	31	2	731.01540		1447.070	.7616E-04	1.001
-1	-1	18	34	2	731.53490		1422.244	.4088E-04	1.004
-1	-1	19	32	3	731.93862		1410.071	.2215E-04	1.002
-1	-1	19	32	1	731.99272		1410.065	.8807E-04	.996
-1	-1	18	34	0	732.04362		1422.238	.6463E-04	.793
-1	-1	20	30	0	732.20769		1407.035	.2241E-04	.974
-1	-1	20	30	2	732.36474		1407.040	.9215E-04	1.001
-1	-1	17	35	3	732.48795		1397.106	.2250E-04	1.005
-1	-1	17	35	1	732.53162		1397.100	.8972E-04	1.002
-1	-1	18	33	2	732.89058		1378.354	.5026E-04	1.003
-1	-1	19	31	3	733.29078		1368.752	.2694E-04	1.002
-1	-1	19	31	1	733.34205		1368.746	.1071E-03	.996
-1	-1	18	33	0	733.45078		1378.348	.7482E-04	.746
-1	-1	20	29	0	733.58070		1368.290	.2709E-04	.979
-1	-1	20	29	2	733.71251		1368.295	.1107E-03	1.000
-1	-1	17	34	3	733.84632		1351.928	.2783E-04	1.005
-1	-1	17	34	1	733.88823		1351.922	.1110E-03	1.002
-1	-1	18	32	2	734.24471		1335.746	.6146E-04	1.003
-1	-1	19	30	3	734.64139		1328.717	.3254E-04	1.001
-1	-1	19	30	1	734.68963		1328.711	.1295E-03	.996
-1	-1	16	35	2	734.83037		1330.789	.1202E-03	1.006

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	-1	18	32	0	734.86935		1335.740	.8415E-04	.686
-1	-1	20	28	0	734.94903		1330.829	.3256E-04	.984
-1	-1	16	35	0	734.98272		1330.783	.2933E-04	.982
-1	-1	20	28	2	735.05869		1330.835	.1324E-03	1.000
-1	-1	17	33	3	735.20315		1308.032	.3419E-04	1.004
-1	-1	17	33	1	735.24321		1308.026	.1364E-03	1.001
-1	-1	18	31	2	735.59729		1294.421	.7463E-04	1.002
-1	-1	19	29	3	735.99043		1289.966	.3910E-04	1.001
-1	-1	19	29	1	736.03544		1289.960	.1556E-03	.996
-1	-1	16	34	2	736.18927		1285.605	.1485E-03	1.006
-1	-1	18	31	0	736.30297		1294.415	.9111E-04	.611
-1	-1	20	27	0	736.31319		1294.654	.3882E-04	.987
-1	-1	16	34	0	736.34056		1285.599	.3618E-04	.980
-1	-1	20	27	2	736.40328		1294.660	.1573E-03	1.000
-1	-1	17	32	3	736.55842		1265.418	.4178E-04	1.004
-1	-1	17	32	1	736.59656		1265.412	.1666E-03	1.001
-1	-1	18	30	2	736.94828		1254.380	.9015E-04	1.002
-1	-1	15	35	3	737.18027		1268.476	.1573E-03	1.008
-1	-1	15	35	1	737.21353		1268.470	.7852E-04	1.006
-1	-1	19	28	3	737.33788		1252.499	.4671E-04	1.001
-1	-1	19	28	1	737.37945		1252.494	.1859E-03	.996
-1	-1	16	33	2	737.54661		1241.703	.1823E-03	1.005
-1	-1	18	29	0	737.57513		1215.617	.1239E-03	.574
-1	-1	20	26	0	737.67360		1259.765	.4600E-04	.990
-1	-1	16	33	0	737.69654		1241.697	.4436E-04	.978
-1	-1	20	26	2	737.74624		1259.771	.1859E-03	1.000
-1	-1	18	30	0	737.75537		1254.374	.9440E-04	.524
-1	-1	17	31	3	737.91213		1224.087	.5068E-04	1.003
-1	-1	17	31	1	737.94825		1224.081	.2021E-03	1.000
-1	-1	18	29	2	738.29769		1215.623	.1081E-03	1.001
-1	-1	15	34	3	738.54024		1223.287	.1942E-03	1.007
-1	-1	15	34	1	738.57214		1223.281	.9690E-04	1.005
-1	-1	19	27	3	738.68372		1216.319	.5546E-04	1.001
-1	-1	19	27	1	738.72165		1216.313	.2208E-03	.996
-1	-1	16	32	2	738.90237		1199.083	.2224E-03	1.004
-1	-1	20	25	0	739.03056		1226.163	.5421E-04	.993
-1	-1	16	32	0	739.05062		1199.078	.5411E-04	.977
-1	-1	18	28	0	739.08565		1178.145	.1723E-03	.669

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	-1	20	25	2	739.08758		1226.169	.2184E-03	1.000
-1	-1	17	30	3	739.26424		1184.040	.6117E-04	1.003
-1	-1	17	30	1	739.29827		1184.034	.2440E-03	1.000
-1	-1	14	35	2	739.56047		1210.163	.2017E-03	1.009
-1	-1	14	35	0	739.64535		1210.157	.5003E-04	1.001
-1	-1	18	28	2	739.64548		1178.151	.1290E-03	1.001
-1	-1	15	33	3	739.89865		1179.379	.2381E-03	1.006
-1	-1	15	33	1	739.92914		1179.373	.1189E-03	1.005
-1	-1	19	26	3	740.02793		1181.424	.6540E-04	1.000
-1	-1	19	26	1	740.06200		1181.419	.2606E-03	.996
-1	-1	16	31	2	740.25653		1157.747	.2698E-03	1.004
-1	-1	20	24	0	740.38433		1193.848	.6344E-04	.995
-1	-1	16	31	0	740.40273		1157.741	.6551E-04	.975
-1	-1	20	24	2	740.42726		1193.854	.2551E-03	1.000
-1	-1	18	27	0	740.56193		1141.959	.2301E-03	.753
-1	-1	17	29	3	740.61475		1145.278	.7330E-04	1.002
-1	-1	17	29	1	740.64660		1145.272	.2926E-03	1.000
-1	-1	14	34	2	740.92102		1164.968	.2487E-03	1.008
-1	-1	18	27	2	740.99164		1141.964	.1531E-03	1.001
-1	-1	14	34	0	741.00364		1164.962	.6169E-04	1.000
-1	-1	15	32	3	741.25545		1136.754	.2904E-03	1.006
-1	-1	15	32	1	741.28450		1136.748	.1449E-03	1.004
-1	-1	19	25	3	741.37049		1147.817	.7675E-04	1.000
-1	-1	19	25	1	741.40051		1147.811	.3058E-03	.996
-1	-1	16	30	2	741.60909		1117.695	.3250E-03	1.003
-1	-1	20	23	0	741.73510		1162.821	.7376E-04	.996
-1	-1	16	30	0	741.75282		1117.689	.7883E-04	.973
-1	-1	20	23	2	741.76528		1162.827	.2962E-03	1.000
-1	-1	13	35	3	741.94964		1155.861	.6339E-04	1.011
-1	-1	17	28	3	741.96363		1107.800	.8739E-04	1.002
-1	-1	13	35	1	741.97607		1155.855	.2533E-03	1.010
-1	-1	17	28	1	741.99323		1107.794	.3485E-03	.999
-1	-1	18	26	0	742.00853		1107.059	.2963E-03	.822
-1	-1	14	33	2	742.27997		1121.055	.3047E-03	1.007
-1	-1	18	26	2	742.33616		1107.065	.1805E-03	1.001
-1	-1	14	33	0	742.36015		1121.050	.7557E-04	.999
-1	-1	15	31	3	742.61065		1095.412	.3517E-03	1.005
-1	-1	15	31	1	742.63820		1095.407	.1755E-03	1.003

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	-1	19	24	3	742.71140		1115.497	.8955E-04	1.000
-1	-1	19	24	1	742.73715		1115.491	.3571E-03	.997
-1	-1	16	29	2	742.96001		1078.927	.3894E-03	1.003
-1	-1	20	22	0	743.08303		1133.083	.8536E-04	.998
-1	-1	16	29	0	743.10081		1078.921	.9427E-04	.971
-1	-1	20	22	2	743.10162		1133.088	.3421E-03	1.000
-1	-1	17	27	3	743.31087		1071.609	.1035E-03	1.001
-1	-1	13	34	3	743.31123		1110.661	.7809E-04	1.010
-1	-1	13	34	1	743.33658		1110.655	.3120E-03	1.009
-1	-1	17	27	1	743.33814		1071.603	.4130E-03	.999
-1	-1	18	25	0	743.43093		1073.447	.3694E-03	.874
-1	-1	14	32	2	743.63731		1078.426	.3713E-03	1.007
-1	-1	18	25	2	743.67901		1073.452	.2114E-03	1.000
-1	-1	14	32	0	743.71487		1078.420	.9201E-04	.998
-1	-1	15	30	3	743.96422		1055.355	.4233E-03	1.004
-1	-1	15	30	1	743.99024		1055.349	.2114E-03	1.003
-1	-1	19	23	3	744.05062		1084.465	.1039E-03	1.000
-1	-1	19	23	1	744.07191		1084.459	.4143E-03	.997
-1	-1	16	28	2	744.30930		1041.445	.4634E-03	1.002
-1	-1	12	35	2	744.36757		1105.565	.1561E-03	1.013
-1	-1	12	35	0	744.42419		1105.559	.3114E-03	1.010
-1	-1	20	21	0	744.42824		1104.633	.9816E-04	.999
-1	-1	20	21	2	744.43626		1104.639	.3930E-03	1.000
-1	-1	16	28	0	744.44663		1041.439	.1122E-03	.970
-1	-1	17	26	3	744.65645		1036.704	.1219E-03	1.001
-1	-1	13	33	3	744.67119		1066.744	.9558E-04	1.009
-1	-1	17	26	1	744.68132		1036.699	.4865E-03	.999
-1	-1	13	33	1	744.69544		1066.738	.3820E-03	1.008
-1	-1	18	24	0	744.83432		1041.122	.4497E-03	.913
-1	-1	14	31	2	744.99301		1037.079	.4492E-03	1.006
-1	-1	18	24	2	745.02019		1041.127	.2463E-03	1.000
-1	-1	14	31	0	745.06777		1037.073	.1114E-03	.998
-1	-1	15	29	3	745.31614		1016.583	.5067E-03	1.004
-1	-1	15	29	1	745.34060		1016.577	.2529E-03	1.002
-1	-1	19	22	3	745.38815		1054.722	.1198E-03	1.000
-1	-1	19	22	1	745.40478		1054.716	.4784E-03	.998
-1	-1	16	27	2	745.65691		1005.249	.5485E-03	1.002
-1	-1	12	34	2	745.72978		1060.361	.1922E-03	1.012

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i	ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	-1	20	20	2	745.76919		1077.479	.4491E-03	1.000	-1	-1	16	25	0	748.47006		936.712	.1818E-03	.965
-1	-1	20	20	0	745.77083		1077.474	.1123E-03	1.000	-1	-1	12	32	0	748.49993	-23	973.794	.5688E-03	1.006
-1	-1	12	34	0	745.78451		1060.355	.3832E-03	1.009	-1	-1	17	23	3	748.68304	-14	939.717	.1921E-03	1.000
-1	-1	16	27	0	745.79018		1005.243	.1325E-03	.968	-1	-1	17	23	1	748.70040	62	939.711	.7675E-03	.999
-1	-1	17	25	3	746.00035		1003.087	.1427E-03	1.001	-1	-1	13	30	3	748.74118		942.692	.1689E-03	1.007
-1	-1	17	25	1	746.02277		1003.082	.5697E-03	.999	-1	-1	13	30	1	748.76200	-55	942.686	.6749E-03	1.006
-1	-1	13	32	3	746.02952		1024.109	.1163E-03	1.008	-1	-1	18	21	0	748.96815	-78	951.880	.7356E-03	.976
-1	-1	13	32	1	746.05264		1024.103	.4646E-03	1.007	-1	-1	18	21	2	749.03347		951.885	.3769E-03	1.000
-1	-1	18	23	0	746.22297	38	1010.085	.5371E-03	.941	-1	-1	14	28	2	749.05014	18	920.749	.7667E-03	1.004
-1	-1	14	30	2	746.34706		997.017	.5400E-03	1.005	-1	-1	14	28	0	749.11537	48	920.743	.1902E-03	.996
-1	-1	18	23	2	746.35967		1010.091	.2855E-03	1.000	-1	-1	10	35	2	749.25104	-11	1017.019	.4462E-03	1.019
-1	-1	14	30	0	746.41883		997.011	.1339E-03	.997	-1	-1	10	35	0	749.29225		1017.013	.1113E-03	1.017
-1	-1	15	28	3	746.66640		979.096	.6023E-03	1.003	-1	-1	15	26	3	749.36186	25	907.982	.8361E-03	1.002
-1	-1	15	28	1	746.68927		979.090	.3008E-03	1.002	-1	-1	15	26	1	749.38146	51	907.976	.4176E-03	1.001
-1	-1	19	21	3	746.72396		1026.268	.1375E-03	1.000	-1	-1	19	19	3	749.39036		973.230	.1782E-03	1.000
-1	-1	19	21	1	746.73575	121	1026.262	.5489E-03	.998	-1	-1	19	19	1	749.39200	-116	973.224	.7126E-03	1.000
-1	-1	11	35	3	746.79562		1059.286	.9429E-04	1.016	-1	-1	11	33	3	749.52040	48	970.152	.1415E-03	1.013
-1	-1	11	35	1	746.81721	-140	1059.280	.3768E-03	1.015	-1	-1	11	33	1	749.54023	-127	970.146	.5659E-03	1.013
-1	-1	16	26	2	747.00286	16	970.340	.6448E-03	1.001	-1	-1	16	24	2	749.68963	8	904.384	.8768E-03	1.001
-1	-1	12	33	2	747.09034	32	1016.439	.2350E-03	1.011	-1	-1	16	24	0	749.80614	109	904.379	.2111E-03	.964
-1	-1	16	26	0	747.13137		970.334	.1556E-03	.966	-1	-1	12	31	2	749.80645	78	932.445	.3447E-03	1.009
-1	-1	12	33	0	747.14309	-22	1016.433	.4681E-03	1.007	-1	-1	12	31	0	749.85501	-23	932.439	.6867E-03	1.005
-1	-1	17	24	3	747.34255		970.758	.1661E-03	1.001	-1	-1	17	22	3	750.02180	-50	909.965	.2210E-03	1.000
-1	-1	17	24	1	747.36246	76	970.752	.6632E-03	.999	-1	-1	17	22	1	750.03656	44	909.959	.8832E-03	.999
-1	-1	13	31	3	747.38618		982.758	.1405E-03	1.007	-1	-1	13	29	3	750.09449	-4	903.911	.2015E-03	1.006
-1	-1	13	31	1	747.40817	-69	982.752	.5614E-03	1.006	-1	-1	13	29	1	750.11413	-56	903.905	.8054E-03	1.005
-1	-1	18	22	0	747.60011	-59	980.338	.6321E-03	.961	-1	-1	18	20	0	750.32881	-71	924.711	.8470E-03	.986
-1	-1	18	22	2	747.69743		980.343	.3289E-03	1.000	-1	-1	18	20	2	750.36776		924.717	.4295E-03	1.000
-1	-1	14	29	2	747.69944	-51	958.240	.6458E-03	1.005	-1	-1	14	27	2	750.39914	33	884.544	.9047E-03	1.003
-1	-1	14	29	0	747.76804		958.234	.1600E-03	.996	-1	-1	14	27	0	750.46082	-4	884.538	.2246E-03	.996
-1	-1	15	27	3	748.01498	49	942.895	.7121E-03	1.003	-1	-1	10	34	2	750.61496	-19	971.806	.5481E-03	1.018
-1	-1	15	27	1	748.03622	-16	942.889	.3554E-03	1.001	-1	-1	10	34	0	750.65468		971.801	.1368E-03	1.016
-1	-1	19	20	3	748.05804		999.104	.1569E-03	1.000	-1	-1	15	25	3	750.70703	20	874.356	.9767E-03	1.002
-1	-1	19	20	1	748.06482	20	999.098	.6271E-03	.999	-1	-1	15	25	1	750.72496	23	874.350	.4879E-03	1.001
-1	-1	11	34	3	748.15885	29	1014.078	.1159E-03	1.015	-1	-1	11	32	3	750.88025	14	927.509	.1717E-03	1.012
-1	-1	11	34	1	748.17957	-99	1014.072	.4633E-03	1.014	-1	-1	11	32	1	750.89920	-115	927.503	.6869E-03	1.012
-1	-1	16	25	2	748.34710	14	936.718	.7541E-03	1.001	-1	-1	16	23	2	751.03043	20	873.339	.1013E-02	1.001
-1	-1	12	32	2	748.44923	16	973.800	.2855E-03	1.010	-1	-1	16	23	0	751.13941	150	873.334	.2438E-03	.963

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i	ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	-1	12	30	2	751.16197	21	892.374	.4135E-03	1.008	-1	-1	16	21	2	753.70677	-12	815.117	.1329E-02	1.000
-1	-1	12	30	0	751.20833	5	892.369	.8246E-03	1.005	-1	-1	16	21	0	753.79674	9	815.112	.3204E-03	.964
-1	-1	17	21	3	751.35880	-73	881.503	.2529E-03	1.000	-1	-1	12	28	2	753.86785	24	816.090	.5837E-03	1.006
-1	-1	17	21	1	751.37094	34	881.497	.1011E-02	.999	-1	-1	12	28	0	753.90958	-8	816.084	.1164E-02	1.003
-1	-1	13	28	3	751.44609	-12	866.415	.2390E-03	1.005	-1	-1	17	19	3	754.02748	-68	828.449	.3258E-03	1.000
-1	-1	13	28	1	751.46455	-31	866.409	.9551E-03	1.004	-1	-1	17	19	1	754.03435	10	828.444	.1302E-02	.999
-1	-1	18	19	0	751.68334	-77	898.834	.9681E-03	.994	-1	-1	13	26	3	754.14412	80	795.285	.3302E-03	1.004
-1	-1	18	19	2	751.70029		898.839	.4870E-03	1.000	-1	-1	13	26	1	754.16017	-31	795.279	.1319E-02	1.003
-1	-1	9	35	3	751.71743	85	978.773	.5176E-03	1.023	-1	-1	8	35	2	754.20983	3	944.544	.5888E-03	1.028
-1	-1	9	35	1	751.73539	-207*	978.767	.2588E-03	1.023	-1	-1	8	35	0	754.24136		944.538	.1472E-03	1.028
-1	-1	14	26	2	751.74643	18	849.626	.1062E-02	1.003	-1	-1	14	24	2	754.43577	15	783.655	.1435E-02	1.002
-1	-1	14	26	0	751.80435	12	849.621	.2634E-03	.995	-1	-1	9	33	3	754.44560	40	889.625	.7735E-03	1.020
-1	-1	10	33	2	751.97716	12	927.877	.6682E-03	1.016	-1	-1	9	33	1	754.46214	-131	889.619	.3864E-03	1.019
-1	-1	10	33	0	752.01535	-58	927.871	.1667E-03	1.014	-1	-1	14	24	0	754.48564	-16	783.649	.3563E-03	.995
-1	-1	15	24	3	752.05046	25	842.018	.1133E-02	1.001	-1	-1	10	31	2	754.69640	17	843.868	.9748E-03	1.013
-1	-1	15	24	1	752.06672	12	842.012	.5659E-03	1.000	-1	-1	10	31	0	754.73141		843.862	.2435E-03	1.012
-1	-1	11	31	3	752.23840	125	886.150	.2071E-03	1.011	-1	-1	15	22	3	754.73206	-9	781.209	.1501E-02	1.001
-1	-1	11	31	1	752.25645	-84	886.144	.8275E-03	1.010	-1	-1	15	22	1	754.74494	4	781.204	.7496E-03	1.000
-1	-1	16	22	2	752.36949	12	843.583	.1163E-02	1.000	-1	-1	11	29	3	754.94952	65	807.287	.2954E-03	1.009
-1	-1	16	22	0	752.46970	67	843.578	.2801E-03	.963	-1	-1	11	29	1	754.96574	-61	807.281	.1180E-02	1.008
-1	-1	12	29	2	752.51577	40	853.589	.4929E-03	1.007	-1	-1	16	20	2	755.04228	-14	787.942	.1511E-02	1.000
-1	-1	12	29	0	752.55985	-21	853.584	.9828E-03	1.004	-1	-1	16	20	0	755.12022	-43	787.936	.3649E-03	.966
-1	-1	17	20	3	752.69404	9	854.331	.2878E-03	1.000	-1	-1	12	27	2	755.21819	0	779.878	.6870E-03	1.005
-1	-1	17	20	1	752.70354	20	854.325	.1150E-02	.999	-1	-1	12	27	0	755.25751	-17	779.872	.1370E-02	1.002
-1	-1	13	27	3	752.79598	45	830.206	.2817E-03	1.004	-1	-1	17	18	3	755.35912		803.859	.3669E-03	1.000
-1	-1	13	27	1	752.81323	-46	830.201	.1127E-02	1.004	-1	-1	17	18	1	755.36335	-77	803.854	.1468E-02	1.000
-1	-1	18	18	2	753.03104		874.252	.5493E-03	1.000	-1	-1	13	25	3	755.49051	25	761.651	.3843E-03	1.003
-1	-1	18	18	0	753.03266	21	874.247	.1099E-02	1.000	-1	-1	13	25	1	755.50535	-30	761.646	.1536E-02	1.002
-1	-1	9	34	3	753.08238	105	933.558	.6345E-03	1.021	-1	-1	8	34	2	755.57558	28	899.325	.7210E-03	1.026
-1	-1	14	25	2	753.09197	3	815.996	.1238E-02	1.002	-1	-1	8	34	0	755.60594	-6	899.320	.1801E-03	1.025
-1	-1	9	34	1	753.09964	-39	933.552	.3173E-03	1.021	-1	-1	14	23	2	755.77780	9	752.602	.1652E-02	1.001
-1	-1	14	25	0	753.14596	1	815.991	.3073E-03	.995	-1	-1	9	32	3	755.80705	70	846.975	.9357E-03	1.018
-1	-1	10	32	2	753.33765	21	885.230	.8101E-03	1.015	-1	-1	9	32	1	755.82288	-24	846.969	.4679E-03	1.018
-1	-1	10	32	0	753.37427	-25	885.224	.2021E-03	1.013	-1	-1	14	23	0	755.82338	-74	752.597	.4107E-03	.995
-1	-1	15	23	3	753.39214	23	810.969	.1308E-02	1.001	-1	-1	10	30	2	756.05339	20	803.790	.1167E-02	1.012
-1	-1	15	23	1	753.40672	-7	810.963	.6532E-03	1.000	-1	-1	15	21	3	756.07018	33	752.740	.1712E-02	1.001
-1	-1	11	30	3	753.59483	156	846.076	.2481E-03	1.010	-1	-1	15	21	1	756.08139	-14	752.734	.8553E-03	1.000
-1	-1	11	30	1	753.61197	-86	846.070	.9915E-03	1.009	-1	-1	10	30	0	756.08677		803.785	.2911E-03	1.010

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i	ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	-1	11	28	3	756.30246	119	769.784	.3494E-03	1.008	-1	-1	15	19	3	758.74099	-12	699.673	.2190E-02	1.000
-1	-1	11	28	1	756.31776	-73	769.779	.1396E-02	1.007	-1	-1	15	19	1	758.74887	-12	699.667	.1095E-02	1.000
-1	-1	16	19	2	756.37599	-7	762.057	.1707E-02	1.000	-1	-1	10	28	2	758.76208	26	727.492	.1638E-02	1.010
-1	-1	16	19	0	756.43974	-71	762.051	.4136E-03	.969	-1	-1	10	28	0	758.79209	15	727.487	.4088E-03	1.008
-1	-1	12	26	2	756.56676	21	744.953	.8043E-03	1.005	-1	-1	11	26	3	759.00301	1	698.640	.4796E-03	1.006
-1	-1	12	26	0	756.60362	-12	744.947	.1604E-02	1.002	-1	-1	11	26	1	759.01647	-46	698.635	.1918E-02	1.006
-1	-1	17	17	3	756.68894		780.560	.4112E-03	1.000	-1	-1	16	17	2	759.03793	-32	714.162	.2147E-02	1.000
-1	-1	17	17	1	756.69055	-51	780.555	.1645E-02	1.000	-1	-1	16	17	0	759.06445	-97	714.156	.5283E-03	.984
-1	-1	7	35	3	756.71364		914.341	.1643E-03	1.035	-1	-1	6	35	2	759.24183	51	888.158	.3600E-03	1.044
-1	-1	7	35	1	756.72876	-113	914.335	.6573E-03	1.035	-1	-1	12	24	2	759.25857	36	678.967	.1080E-02	1.003
-1	-1	13	24	3	756.83512	17	729.306	.4450E-03	1.003	-1	-1	6	35	0	759.26666	-4	888.152	.7200E-03	1.044
-1	-1	13	24	1	756.84876	-28	729.301	.1778E-02	1.002	-1	-1	12	24	0	759.29035	-18	678.962	.2155E-02	1.001
-1	-1	8	33	2	756.93956	17	855.389	.8769E-03	1.024	-1	-1	7	33	3	759.44561	25	825.181	.2439E-03	1.030
-1	-1	8	33	0	756.96872	-103	855.384	.2190E-03	1.023	-1	-1	7	33	1	759.45957	-94	825.175	.9756E-03	1.030
-1	-1	14	22	2	757.11805	20	722.839	.1893E-02	1.001	-1	-1	13	22	3	759.51896	55	668.484	.5853E-03	1.002
-1	-1	14	22	0	757.15916	21	722.834	.4705E-03	.995	-1	-1	13	22	1	759.53020	-23	668.479	.2339E-02	1.001
-1	-1	9	31	3	757.16674	60	805.609	.1126E-02	1.017	-1	-1	8	31	2	759.66210	26	771.368	.1272E-02	1.020
-1	-1	9	31	1	757.18184	-72	805.603	.5623E-03	1.016	-1	-1	8	31	0	759.68881	-28	771.363	.3180E-03	1.020
-1	-1	15	20	3	757.40650	97	725.561	.1941E-02	1.000	-1	-1	14	20	2	759.79311	11	667.184	.2443E-02	1.001
-1	-1	10	29	2	757.40863	-117	764.998	.1387E-02	1.011	-1	-1	14	20	0	759.82486	-36	667.179	.6077E-03	.996
-1	-1	15	20	1	757.41603	-2	725.555	.9703E-03	1.000	-1	-1	9	29	3	759.88076	57	726.733	.1596E-02	1.014
-1	-1	10	29	0	757.44033	3	764.993	.3461E-03	1.009	-1	-1	9	29	1	759.89440	-37	726.728	.7972E-03	1.013
-1	-1	11	27	3	757.65363	51	733.568	.4107E-03	1.007	-1	-1	15	18	3	760.07364	-31	675.076	.2457E-02	1.000
-1	-1	11	27	1	757.66801	-64	733.563	.1641E-02	1.006	-1	-1	15	18	1	760.07990	64	675.071	.1229E-02	1.000
-1	-1	16	18	2	757.70787	-28	737.463	.1920E-02	1.000	-1	-1	10	27	2	760.11374	23	691.274	.1923E-02	1.009
-1	-1	16	18	0	757.75474	-130	737.458	.4679E-03	.975	-1	-1	10	27	0	760.14204	6	691.268	.4798E-03	1.007
-1	-1	12	25	2	757.91356	6	711.316	.9348E-03	1.004	-1	-1	11	25	3	760.35059	63	665.000	.5566E-03	1.005
-1	-1	12	25	0	757.94790	-19	711.310	.1864E-02	1.001	-1	-1	11	25	1	760.36313	158	664.994	.2226E-02	1.005
-1	-1	7	34	3	758.08054		869.120	.2008E-03	1.032	-1	-1	16	16	2	760.36612	-141	692.152	.2391E-02	1.000
-1	-1	7	34	1	758.09508	-95	869.114	.8031E-03	1.032	-1	-1	16	16	0	760.36773		692.146	.5977E-03	1.000
-1	-1	13	23	3	758.17794	-10	698.250	.5116E-03	1.002	-1	-1	12	23	2	760.60177	21	647.908	.1241E-02	1.003
-1	-1	13	23	1	758.19038	-36	698.245	.2044E-02	1.001	-1	-1	6	34	2	760.60976	19	842.934	.4393E-03	1.041
-1	-1	8	32	2	758.30173	14	812.737	.1060E-02	1.022	-1	-1	12	23	0	760.63096	34	647.903	.2474E-02	1.000
-1	-1	8	32	0	758.32968	35	812.731	.2649E-03	1.022	-1	-1	6	34	0	760.63366	-236*	842.928	.8786E-03	1.041
-1	-1	14	21	2	758.45649	12	694.367	.2157E-02	1.001	-1	-1	7	32	3	760.80883		782.526	.2943E-03	1.028
-1	-1	14	21	0	758.49299	-17	694.361	.5360E-03	.995	-1	-1	7	32	1	760.82221	-73	782.520	.1177E-02	1.028
-1	-1	9	30	3	758.52465	64	765.529	.1344E-02	1.015	-1	-1	13	21	3	760.85814	61	640.008	.6649E-03	1.001
-1	-1	9	30	1	758.53902	-53	765.523	.6721E-03	1.015	-1	-1	13	21	1	760.86820	-28	640.003	.2660E-02	1.001

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i	ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	-1	8	30	2	761.02065	0	731.285	.1518E-02	1.019	-1	-1	6	32	2	763.33992	56	756.336	.6411E-03	1.035
-1	-1	8	30	0	761.04612	6	731.279	.3792E-03	1.018	-1	-1	6	32	0	763.36193	24	756.330	.1282E-02	1.035
-1	-1	14	19	2	761.12790	8	641.293	.2749E-02	1.000	-1	-1	7	30	3	763.52973		701.069	.4197E-03	1.023
-1	-1	14	19	0	761.15477	-35	641.288	.6844E-03	.996	-1	-1	13	19	3	763.53097	-35	586.929	.8451E-03	1.001
-1	-1	9	28	3	761.23506	39	689.225	.1881E-02	1.012	-1	-1	13	19	1	763.53872	84	586.924	.3377E-02	1.000
-1	-1	9	28	1	761.24796	-57	689.219	.9404E-03	1.012	-1	-1	7	30	1	763.54192	-236*	701.063	.1679E-02	1.023
-1	-1	15	17	3	761.40443	116	651.771	.2744E-02	1.000	-1	-1	8	28	2	763.73225	46	654.976	.2116E-02	1.015
-1	-1	15	17	1	761.40909		651.766	.1372E-02	1.000	-1	-1	8	28	0	763.75519	119	654.970	.5290E-03	1.015
-1	-1	10	26	2	761.46359	18	656.342	.2242E-02	1.008	-1	-1	14	17	2	763.79188	-25	593.386	.3431E-02	1.000
-1	-1	10	26	0	761.49016	-55	656.337	.5595E-03	1.006	-1	-1	14	17	0	763.80873	-2	593.381	.8552E-03	.997
-1	-1	11	24	3	761.69636	80	632.649	.6418E-03	1.004	-1	-1	9	26	3	763.93817	58	618.069	.2566E-02	1.010
-1	-1	11	24	1	761.70799	-40	632.643	.2567E-02	1.004	-1	-1	9	26	1	763.94962	-73	618.064	.1282E-02	1.009
-1	-1	5	35	3	761.78103		866.004	.1936E-03	1.056	-1	-1	15	15	3	764.06034	-37	609.039	.3372E-02	1.000
-1	-1	5	35	1	761.79380	-88	865.998	.7752E-03	1.057	-1	-1	15	15	1	764.06194		609.034	.1686E-02	1.000
-1	-1	12	22	2	761.94314	38	618.139	.1415E-02	1.002	-1	-1	10	24	2	764.15781	-29	590.345	.2991E-02	1.006
-1	-1	12	22	0	761.96971	-7	618.134	.2825E-02	1.000	-1	-1	10	24	0	764.18088	3	590.340	.7463E-03	1.004
-1	-1	6	33	2	761.97579		798.993	.5325E-03	1.038	-1	-1	4	35	2	764.34154	49	847.873	.8211E-03	1.075
-1	-1	6	33	0	761.99875	-14	798.987	.1065E-02	1.038	-1	-1	4	35	0	764.36126		847.867	.2055E-03	1.076
-1	-1	7	31	3	762.17021	67	741.155	.3528E-03	1.026	-1	-1	11	22	3	764.38237	-24	571.815	.8385E-03	1.003
-1	-1	7	31	1	762.18300	-84	741.149	.1410E-02	1.025	-1	-1	11	22	1	764.39220	-29	571.809	.3354E-02	1.003
-1	-1	13	20	3	762.19549	-65	612.823	.7518E-03	1.001	-1	-1	5	33	3	764.51780		776.835	.2854E-03	1.049
-1	-1	13	20	1	762.20438	-6	612.817	.3007E-02	1.001	-1	-1	5	33	1	764.52963	-70	776.830	.1142E-02	1.049
-1	-1	8	29	2	762.37738	37	692.487	.1798E-02	1.017	-1	-1	12	20	2	764.62034	-5	562.472	.1811E-02	1.001
-1	-1	8	29	0	762.40158		692.481	.4491E-03	1.016	-1	-1	12	20	0	764.64164	-8	562.467	.3616E-02	.999
-1	-1	14	18	2	762.46082	-17	616.694	.3079E-02	1.000	-1	-1	6	31	2	764.70215	-4	714.963	.7667E-03	1.032
-1	-1	14	18	0	762.48272	-49	616.688	.7674E-03	.997	-1	-1	6	31	0	764.72320	25	714.957	.1533E-02	1.032
-1	-1	9	27	3	762.58753	53	653.003	.2204E-02	1.011	-1	-1	13	18	3	764.86457		562.327	.9438E-03	1.000
-1	-1	9	27	1	762.59971	-57	652.998	.1102E-02	1.011	-1	-1	13	18	1	764.87120	-7	562.321	.3775E-02	1.000
-1	-1	15	16	3	762.73333	-44	629.759	.3049E-02	1.000	-1	-1	7	29	3	764.88737	52	662.269	.4964E-03	1.021
-1	-1	15	16	1	762.73644		629.754	.1524E-02	1.000	-1	-1	7	29	1	764.89897	-71	662.263	.1986E-02	1.021
-1	-1	10	25	2	762.81162	16	622.699	.2598E-02	1.007	-1	-1	8	27	2	765.08528	9	618.752	.2476E-02	1.014
-1	-1	10	25	0	762.83644	66	622.694	.6483E-03	1.005	-1	-1	8	27	0	765.10693	8	618.746	.6183E-03	1.013
-1	-1	11	23	3	763.04029	-24	601.587	.7363E-03	1.004	-1	-1	14	16	2	765.12104	1	571.371	.3804E-02	1.000
-1	-1	11	23	1	763.05102	-52	601.581	.2942E-02	1.003	-1	-1	14	16	0	765.13280	6	571.366	.9491E-03	.998
-1	-1	5	34	3	763.15040		820.778	.2360E-03	1.053	-1	-1	9	25	3	765.28695	33	584.424	.2968E-02	1.009
-1	-1	5	34	1	763.16270	-72	820.773	.9440E-03	1.053	-1	-1	9	25	1	765.29769	-24	584.418	.1483E-02	1.008
-1	-1	12	21	2	763.28267	-8	589.660	.1607E-02	1.002	-1	-1	10	23	2	765.50214	12	559.281	.3422E-02	1.005
-1	-1	12	21	0	763.30660	-11	589.655	.3207E-02	1.000	-1	-1	10	23	0	765.52346	3	559.275	.8546E-03	1.004

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	-1	4	34	2	765.71251	17	802.646	.9986E-03	1.071
-1	-1	11	21	3	765.72258		543.333	.9500E-03	1.003
-1	-1	4	34	0	765.73152		802.640	.2497E-03	1.071
-1	-1	11	21	1	765.73154	-17	543.328	.3796E-02	1.002
-1	-1	5	32	3	765.88323		734.176	.3431E-03	1.046
-1	-1	5	32	1	765.89459	-36	734.170	.1373E-02	1.046
-1	-1	12	19	2	765.95613	4	536.576	.2032E-02	1.001
-1	-1	12	19	0	765.97480	12	536.570	.4056E-02	.999
-1	-1	6	30	2	766.06246	44	674.875	.9115E-03	1.030
-1	-1	6	30	0	766.08255	-4	674.869	.1823E-02	1.030
-1	-1	13	17	3	766.19627		539.017	.1049E-02	1.000
-1	-1	13	17	1	766.20181	-34	539.011	.4198E-02	1.000
-1	-1	7	28	3	766.24313	25	624.755	.5832E-03	1.019
-1	-1	7	28	1	766.25414	-56	624.750	.2333E-02	1.019
-1	-1	8	26	2	766.43643	-21	583.816	.2875E-02	1.012
-1	-1	14	15	2	766.44829	-18	550.649	.4198E-02	1.000
-1	-1	14	15	0	766.45495		550.644	.1048E-02	.999
-1	-1	8	26	0	766.45681	-71	583.810	.7186E-03	1.012
-1	-1	9	24	3	766.63386	3	552.067	.3411E-02	1.008
-1	-1	9	24	1	766.64389	-38	552.062	.1704E-02	1.007
-1	-1	10	22	2	766.84460	11	529.506	.3889E-02	1.004
-1	-1	10	22	0	766.86418	20	529.501	.9714E-03	1.003
-1	-1	3	35	3	766.90893	35	833.774	.8624E-03	1.107
-1	-1	3	35	1	766.91954	-67	833.768	.4312E-03	1.107
-1	-1	11	20	3	767.06091	-71	516.143	.1069E-02	1.002
-1	-1	11	20	1	767.06900	0	516.137	.4275E-02	1.002
-1	-1	4	33	2	767.08140	12	758.701	.1205E-02	1.066
-1	-1	4	33	0	767.09970		758.695	.3012E-03	1.066
-1	-1	5	31	3	767.24668	-59	692.801	.4094E-03	1.042
-1	-1	5	31	1	767.25756	-57	692.795	.1637E-02	1.042
-1	-1	12	18	2	767.29002	-12	511.971	.2267E-02	1.001
-1	-1	12	18	0	767.30608	1	511.966	.4525E-02	.999
-1	-1	6	29	2	767.42085	3	636.073	.1075E-02	1.027
-1	-1	6	29	0	767.43997	35	636.067	.2151E-02	1.027
-1	-1	13	16	3	767.52605		517.000	.1161E-02	1.000
-1	-1	13	16	1	767.53054	-41	516.994	.4643E-02	1.000
-1	-1	7	27	3	767.59699		588.529	.6812E-03	1.018
-1	-1	7	27	1	767.60742	-53	588.523	.2725E-02	1.018

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	-1	14	14	2	767.77361	23	531.221	.4612E-02	1.000
-1	-1	14	14	0	767.77519		531.215	.1153E-02	1.000
-1	-1	8	25	2	767.78570	32	550.168	.3319E-02	1.011
-1	-1	8	25	0	767.80480	81	550.162	.8289E-03	1.010
-1	-1	9	23	3	767.97890	33	521.000	.3894E-02	1.007
-1	-1	9	23	1	767.98822	-21	520.995	.1945E-02	1.006
-1	-1	10	21	2	768.18517	12	501.023	.4393E-02	1.003
-1	-1	10	21	0	768.20302	6	501.017	.1097E-02	1.002
-1	-1	3	34	3	768.28240	45	788.545	.1045E-02	1.100
-1	-1	3	34	1	768.29266	-52	788.539	.5228E-03	1.101
-1	-1	11	19	3	768.39734		490.244	.1196E-02	1.002
-1	-1	11	19	1	768.40459	-1	490.239	.4781E-02	1.001
-1	-1	4	32	2	768.44822	6	716.040	.1444E-02	1.061
-1	-1	4	32	0	768.46579		716.034	.3613E-03	1.062
-1	-1	5	30	3	768.60815	-17	652.711	.4855E-03	1.039
-1	-1	5	30	1	768.61856	195*	652.706	.1942E-02	1.039
-1	-1	12	17	2	768.62201	-149	488.659	.2512E-02	1.000
-1	-1	12	17	0	768.63548	3	488.653	.5019E-02	.999
-1	-1	6	28	2	768.77732	26	598.557	.1261E-02	1.025
-1	-1	6	28	0	768.79546	38	598.551	.2522E-02	1.025
-1	-1	13	15	3	768.85389		496.275	.1278E-02	1.000
-1	-1	13	15	1	768.85737	-45	496.270	.5111E-02	1.000
-1	-1	7	26	3	768.94895		553.591	.7895E-03	1.016
-1	-1	7	26	1	768.95880	-49	553.585	.3158E-02	1.016
-1	-1	8	24	2	769.13307	28	517.809	.3807E-02	1.010
-1	-1	8	24	0	769.15091	-15	517.803	.9508E-03	1.009
-1	-1	9	22	3	769.32203	12	491.224	.4418E-02	1.006
-1	-1	9	22	1	769.33065		491.218	.2207E-02	1.005
-1	-1	2	35	2	769.48356	33	823.699	.9095E-03	1.169
-1	-1	2	35	0	769.49851		823.693	.2278E-03	1.171
-1	-1	10	20	2	769.52384	19	473.830	.4937E-02	1.003
-1	-1	10	20	0	769.53998	-7	473.824	.1233E-02	1.002
-1	-1	3	33	3	769.65363	58	744.599	.1258E-02	1.094
-1	-1	3	33	1	769.66353		744.593	.6288E-03	1.094
-1	-1	11	18	3	769.73184		465.637	.1330E-02	1.001
-1	-1	11	18	1	769.73827	-12	465.632	.5321E-02	1.001
-1	-1	4	31	2	769.81297	16	674.664	.1720E-02	1.057
-1	-1	4	31	0	769.82980	35	674.658	.4304E-03	1.058

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	-1	12	16	2	769.95206	-32	466.639	.2772E-02	1.000
-1	-1	12	16	0	769.96300	12	466.634	.5539E-02	.999
-1	-1	5	29	3	769.96764		613.908	.5717E-03	1.036
-1	-1	5	29	1	769.97757	-59	613.902	.2287E-02	1.036
-1	-1	6	27	2	770.13184	37	562.329	.1469E-02	1.023
-1	-1	6	27	0	770.14900	9	562.323	.2938E-02	1.023
-1	-1	13	14	3	770.17978		476.844	.1400E-02	1.000
-1	-1	13	14	1	770.18228	-40	476.839	.5601E-02	1.000
-1	0	20	35	0	770.25054		1620.005	.4558E-05	.875
-1	-1	7	25	3	770.29882	9	519.941	.9090E-03	1.014
-1	-1	7	25	1	770.30826	-33	519.935	.3636E-02	1.014
-1	0	20	34	0	770.39665		1574.847	.5552E-05	.902
-1	-1	8	23	2	770.47854	9	486.740	.4333E-02	1.008
-1	-1	8	23	0	770.49511	-25	486.734	.1083E-02	1.008
-1	0	20	33	0	770.52798		1530.971	.6638E-05	.922
-1	0	20	32	0	770.64738		1488.376	.7813E-05	.938
-1	-1	9	21	3	770.66324	12	462.737	.4980E-02	1.005
-1	-1	9	21	1	770.67119	-7	462.732	.2490E-02	1.005
-1	0	20	35	2	770.68322		1620.011	.2051E-04	.984
-1	0	20	31	0	770.75697		1447.064	.9048E-05	.950
-1	0	20	34	2	770.76009		1574.853	.2429E-04	.986
-1	0	20	33	2	770.83465		1530.977	.2844E-04	.987
-1	0	20	30	0	770.85836		1407.035	.1032E-04	.960
-1	-1	10	19	2	770.86059	25	447.929	.5508E-02	1.002
-1	-1	2	34	2	770.86114	-32	778.469	.1097E-02	1.159
-1	-1	10	19	0	770.87504	19	447.923	.1376E-02	1.001
-1	-1	2	34	0	770.87563		778.463	.2748E-03	1.161
-1	0	20	32	2	770.90689		1488.382	.3293E-04	.988
-1	0	20	29	0	770.95275		1368.290	.1159E-04	.968
-1	0	20	31	2	770.97683		1447.070	.3769E-04	.989
-1	-1	3	32	3	771.02262	66	701.937	.1503E-02	1.088
-1	-1	3	32	1	771.03216	-22	701.931	.7516E-03	1.088
-1	0	20	28	0	771.04107		1330.829	.1279E-04	.974
-1	0	20	30	2	771.04448		1407.040	.4260E-04	.990
-1	-1	11	17	3	771.06440		442.323	.1472E-02	1.001
-1	-1	11	17	1	771.07004	-22	442.317	.5888E-02	1.001
-1	0	20	29	2	771.10983		1368.295	.4748E-04	.991
-1	0	20	27	0	771.12400		1294.654	.1384E-04	.979

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	0	20	28	2	771.17290		1330.835	.5210E-04	.992
-1	-1	4	30	2	771.17564	24	634.573	.2034E-02	1.053
-1	-1	4	30	0	771.19173	-18	634.567	.5086E-03	1.053
-1	0	20	26	0	771.20211		1259.765	.1466E-04	.984
-1	0	20	27	2	771.23369		1294.660	.5620E-04	.994
-1	0	20	25	0	771.27581		1226.163	.1510E-04	.987
-1	-1	12	15	2	771.28015	-5	445.913	.3043E-02	1.000
-1	-1	12	15	0	771.28863	17	445.908	.6081E-02	.999
-1	0	20	26	2	771.29221		1259.771	.5930E-04	.995
-1	-1	5	28	3	771.32513	71	576.390	.6687E-03	1.033
-1	-1	5	28	1	771.33458	-58	576.385	.2675E-02	1.033
-1	0	20	24	0	771.34545		1193.848	.1505E-04	.990
-1	0	20	25	2	771.34848		1226.169	.6090E-04	.995
-1	0	20	24	2	771.40249		1193.854	.6055E-04	.996
-1	0	20	23	0	771.41129		1162.821	.1432E-04	.993
-1	0	20	23	2	771.45425		1162.827	.5750E-04	.997
-1	0	20	22	0	771.47357		1133.083	.1269E-04	.995
-1	-1	6	26	2	771.48441	-2	527.389	.1700E-02	1.021
-1	-1	6	26	0	771.50061	322*	527.383	.3396E-02	1.020
-1	-1	13	13	3	771.50368		458.707	.1528E-02	1.000
-1	0	20	22	2	771.50378		1133.088	.5093E-04	.998
-1	-1	13	13	1	771.50526		458.702	.6113E-02	1.000
-1	0	20	21	0	771.53246		1104.633	.9956E-05	.997
-1	0	20	21	2	771.55107		1104.639	.3990E-04	.999
-1	0	20	20	0	771.58810		1077.474	.5828E-05	.999
-1	0	20	20	2	771.59615		1077.479	.2334E-04	1.000
-1	-1	7	24	3	771.64709	-51	487.580	.1040E-02	1.013
-1	-1	7	24	1	771.65580	-30	487.575	.4162E-02	1.013
-1	-1	8	22	2	771.82208	14	456.961	.4905E-02	1.007
-1	-1	8	22	0	771.83741	-3	456.956	.1226E-02	1.007
-1	-1	9	20	3	772.00253	15	435.543	.5577E-02	1.004
-1	-1	9	20	1	772.00982	3	435.537	.2789E-02	1.004
-1	-1	1	35	3	772.01030		817.656	.2548E-03	1.340
-1	-1	1	35	1	772.01759		817.651	.1021E-02	1.342
-1	-1	10	18	2	772.19540	1	423.320	.6115E-02	1.002
-1	-1	10	18	0	772.20820	21	423.314	.1527E-02	1.001
-1	-1	2	33	2	772.23617	25	734.522	.1315E-02	1.149
-1	-1	2	33	0	772.25019	236*	734.516	.3293E-03	1.151

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	-1	3	31	3	772.38939		660.559	.1784E-02	1.082
-1	-1	11	16	3	772.39501		420.301	.1620E-02	1.001
-1	-1	3	31	1	772.39856	96	660.553	.8922E-03	1.082
-1	-1	11	16	1	772.39988	-35	420.296	.6474E-02	1.000
-1	-1	4	29	2	772.53624	25	595.767	.2389E-02	1.049
-1	-1	4	29	0	772.55158	55	595.762	.5973E-03	1.049
-1	-1	12	14	2	772.60628	-87	426.480	.3325E-02	1.000
-1	-1	12	14	0	772.61237	-1	426.475	.6651E-02	1.000
-1	-1	5	27	3	772.68063		540.161	.7767E-03	1.030
-1	-1	5	27	1	772.68960	-44	540.155	.3107E-02	1.030
-1	-1	6	25	2	772.83502	22	493.737	.1953E-02	1.019
-1	-1	6	25	0	772.85025	11	493.732	.3902E-02	1.018
-1	0	19	35	3	772.95954		1541.721	.7869E-05	.984
-1	-1	7	23	3	772.99326		456.509	.1182E-02	1.011
-1	-1	7	23	1	773.00140	-31	456.504	.4727E-02	1.011
-1	0	19	35	1	773.02305		1541.715	.3122E-04	.976
-1	0	19	34	3	773.03749		1496.556	.9342E-05	.985
-1	0	19	34	1	773.09891		1496.550	.3710E-04	.978
-1	0	19	33	3	773.11313		1452.673	.1098E-04	.986
-1	-1	8	21	2	773.16369	8	428.473	.5516E-02	1.006
-1	0	19	33	1	773.17228		1452.667	.4362E-04	.979
-1	-1	8	21	0	773.17778	-12	428.468	.1379E-02	1.006
-1	0	19	32	3	773.18645		1410.071	.1278E-04	.987
-1	0	19	32	1	773.24315		1410.065	.5075E-04	.980
-1	0	19	31	3	773.25747		1368.752	.1472E-04	.989
-1	0	19	31	1	773.31153		1368.746	.5847E-04	.982
-1	0	19	30	3	773.32618		1328.717	.1675E-04	.990
-1	-1	9	19	3	773.33987	-22	409.640	.6207E-02	1.003
-1	-1	9	19	1	773.34651	74	409.634	.3104E-02	1.003
-1	0	19	30	1	773.37742		1328.711	.6652E-04	.983
-1	0	19	29	3	773.39260		1289.966	.1881E-04	.991
-1	-1	1	34	3	773.39845		772.426	.3057E-03	1.323
-1	-1	1	34	1	773.40562	-43	772.420	.1225E-02	1.325
-1	0	19	29	1	773.44081		1289.960	.7473E-04	.984
-1	0	19	28	3	773.45673		1252.499	.2084E-04	.992
-1	0	19	28	1	773.50172		1252.494	.8287E-04	.986
-1	0	19	27	3	773.51858		1216.319	.2273E-04	.993
-1	-1	10	17	2	773.52826	2	400.003	.6742E-02	1.001

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	-1	10	17	0	773.53944	49	399.998	.1686E-02	1.001
-1	0	19	27	1	773.56013		1216.313	.9039E-04	.987
-1	0	19	26	3	773.57816		1181.424	.2436E-04	.994
-1	-1	2	32	2	773.60867	-3	691.859	.1565E-02	1.140
-1	0	19	26	1	773.61606		1181.419	.9694E-04	.989
-1	-1	2	32	0	773.62221	-141	691.853	.3921E-03	1.142
-1	0	19	25	3	773.63546		1147.817	.2555E-04	.995
-1	0	19	25	1	773.66951		1147.811	.1017E-03	.990
-1	0	19	24	3	773.69050		1115.497	.2612E-04	.996
-1	0	19	24	1	773.72049		1115.491	.1039E-03	.991
-1	-1	11	15	3	773.72364		399.573	.1772E-02	1.000
-1	-1	11	15	1	773.72777	-38	399.567	.7087E-02	1.000
-1	0	19	23	3	773.74328		1084.465	.2582E-04	.997
-1	-1	3	30	3	773.75395	43	620.467	.2103E-02	1.076
-1	-1	3	30	1	773.76274	-67	620.461	.1053E-02	1.077
-1	0	19	23	1	773.76900		1084.459	.1029E-03	.993
-1	0	19	22	3	773.79381		1054.722	.2438E-04	.998
1	-1	0	35	2	773.81117		815.640	.3637E-03	1.000
1	-1	0	35	0	773.81290	73	815.634	.7273E-03	1.000
-1	0	19	22	1	773.81507		1054.716	.9713E-04	.994
-1	0	19	21	3	773.84209		1026.268	.2145E-04	.998
-1	0	19	21	1	773.85869		1026.262	.8564E-04	.996
-1	0	19	20	3	773.88813		999.104	.1672E-04	.999
-1	-1	4	28	2	773.89476	25	558.249	.2787E-02	1.045
-1	0	19	20	1	773.89989		999.098	.6681E-04	.998
-1	-1	4	28	0	773.90935	4	558.243	.6967E-03	1.045
-1	-1	12	13	2	773.93043		408.341	.3618E-02	1.000
-1	0	19	19	3	773.93193		973.230	.9726E-05	1.000
-1	-1	12	13	0	773.93420	173	408.336	.7236E-02	1.000
-1	0	19	19	1	773.93870		973.224	.3887E-04	.999
-1	-1	5	26	3	774.03412		505.219	.8959E-03	1.027
-1	-1	5	26	1	774.04262	-34	505.213	.3584E-02	1.027
-1	-1	6	24	2	774.18367	21	461.375	.2228E-02	1.017
-1	-1	6	24	0	774.19794	20	461.369	.4452E-02	1.016
-1	-1	7	22	3	774.33746	-118	426.729	.1335E-02	1.010
-1	-1	7	22	1	774.34505	-12	426.723	.5339E-02	1.010
-1	-1	8	20	2	774.50334	10	401.276	.6163E-02	1.005
-1	-1	8	20	0	774.51622	3	401.271	.1541E-02	1.005

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	-1	9	18	3	774.67524	40	385.029	.6873E-02	1.003
-1	-1	9	18	1	774.68125	53	385.023	.3433E-02	1.002
-1	-1	1	33	3	774.78332		728.479	.3638E-03	1.305
-1	-1	1	33	1	774.79034	-12	728.473	.1458E-02	1.307
-1	-1	10	16	2	774.85914	-10	377.980	.7399E-02	1.001
-1	-1	10	16	0	774.86875	101	377.974	.1848E-02	1.000
-1	-1	2	31	2	774.97866	17	650.481	.1851E-02	1.131
-1	-1	2	31	0	774.99171	15	650.475	.4635E-03	1.133
-1	0	18	28	0	775.04699		1178.145	.7536E-04	.578
-1	-1	11	14	3	775.05027		380.138	.1930E-02	1.000
-1	-1	11	14	1	775.05371	-42	380.133	.7720E-02	1.000
-1	-1	3	29	3	775.11629	6	581.661	.2461E-02	1.070
-1	-1	3	29	1	775.12471	-53	581.655	.1232E-02	1.071
1	-1	0	34	2	775.23779		770.409	.4412E-03	1.000
1	-1	0	34	0	775.23951	76	770.403	.8824E-03	1.000
-1	-1	4	27	2	775.25121	200*	522.018	.3227E-02	1.041
-1	-1	12	12	2	775.25256		391.497	.3922E-02	1.000
-1	-1	12	12	0	775.25414	12	391.491	.7844E-02	1.000
-1	-1	4	27	0	775.26505	116	522.012	.8076E-03	1.042
-1	0	18	35	2	775.27069		1467.415	.2354E-04	.982
-1	0	18	27	0	775.27172		1141.959	.9627E-04	.671
-1	0	18	34	2	775.34896		1422.244	.2804E-04	.983
-1	-1	5	25	3	775.38560		471.566	.1027E-02	1.025
-1	-1	5	25	1	775.39363	-53	471.560	.4109E-02	1.025
-1	0	18	33	2	775.42488		1378.354	.3307E-04	.984
-1	0	18	26	0	775.46155		1107.059	.1172E-03	.754
-1	0	18	32	2	775.49847		1335.746	.3868E-04	.986
-1	-1	6	23	2	775.53033	6	430.302	.2525E-02	1.015
-1	-1	6	23	0	775.54365	23	430.297	.5050E-02	1.015
-1	0	18	31	2	775.56973		1294.421	.4473E-04	.987
-1	0	18	25	0	775.62104		1073.447	.1360E-03	.822
-1	0	18	30	2	775.63866		1254.380	.5117E-04	.988
-1	-1	7	21	3	775.67970		398.239	.1496E-02	1.008
-1	-1	7	21	1	775.68675	-29	398.233	.5983E-02	1.008
-1	0	18	35	0	775.70376		1467.409	.3978E-04	.829
-1	0	18	29	2	775.70527		1215.623	.5786E-04	.989
-1	0	18	24	0	775.75573		1041.122	.1506E-03	.874
-1	0	18	28	2	775.76958		1178.151	.6460E-04	.990
-1	0	18	34	0	775.81607		1422.238	.4578E-04	.802
-1	0	18	27	2	775.83158		1141.964	.7121E-04	.992
-1	-1	8	19	2	775.84102	4	375.372	.6841E-02	1.004
-1	-1	8	19	0	775.85271	34	375.366	.1710E-02	1.004
-1	0	18	23	0	775.87080		1010.085	.1596E-03	.912
-1	0	18	26	2	775.89128		1107.065	.7721E-04	.993
-1	0	18	33	0	775.93357		1378.348	.5160E-04	.767
-1	0	18	25	2	775.94870		1073.452	.8224E-04	.994
-1	0	18	22	0	775.97056		980.338	.1615E-03	.940
-1	0	18	24	2	776.00383		1041.127	.8576E-04	.995
-1	-1	9	17	3	776.00864	53	361.710	.7556E-02	1.002
-1	-1	9	17	1	776.01404	59	361.705	.3778E-02	1.002
-1	0	18	23	2	776.05669		1010.091	.8716E-04	.996
-1	0	18	21	0	776.05827		951.880	.1548E-03	.960
-1	0	18	32	0	776.05864		1335.740	.5669E-04	.722
-1	0	18	22	2	776.10728		980.343	.8568E-04	.997
-1	0	18	20	0	776.13634		924.711	.1376E-03	.975
-1	0	18	21	2	776.15561		951.885	.8037E-04	.997
-1	-1	1	32	3	776.16493		685.815	.4301E-03	1.288
-1	-1	1	32	1	776.17181	-98	685.810	.1723E-02	1.290
-1	-1	10	15	2	776.18803	-11	357.250	.8075E-02	1.001
-1	0	18	31	0	776.19434		1294.415	.6024E-04	.664
-1	-1	10	15	0	776.19613	24	357.244	.2017E-02	1.000
-1	0	18	20	2	776.20168		924.717	.7042E-04	.998
-1	0	18	19	0	776.20653		898.834	.1077E-03	.986
-1	0	18	19	2	776.24551		898.839	.5459E-04	.999
-1	0	18	18	0	776.27013		874.247	.6281E-04	.994
-1	0	18	18	2	776.28709		874.252	.3160E-04	1.000
-1	0	18	30	0	776.34431		1254.374	.6138E-04	.592
-1	-1	2	30	2	776.34618	42	610.388	.2172E-02	1.122
-1	-1	2	30	0	776.35871	100	610.382	.5439E-03	1.124
-1	-1	11	13	3	776.37489		361.997	.2093E-02	1.000
-1	-1	11	13	1	776.37767	-47	361.992	.8372E-02	1.000
-1	-1	3	28	3	776.47643	40	544.141	.2862E-02	1.065
-1	-1	3	28	1	776.48448	-138	544.135	.1432E-02	1.066
-1	0	18	29	0	776.51233		1215.617	.5939E-04	.507
-1	-1	4	26	2	776.60557	20	487.075	.3715E-02	1.038
-1	-1	4	26	0	776.61867	22	487.069	.9287E-03	1.038

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	-1	0	33	2	776.66107		726.462	.5314E-03	1.000
1	-1	0	33	0	776.66278	74	726.456	.1063E-02	1.000
-1	-1	5	24	3	776.73505		439.202	.1168E-02	1.022
-1	-1	5	24	1	776.74263	-29	439.196	.4673E-02	1.022
-1	-1	6	22	2	776.87501	-2	400.520	.2842E-02	1.013
-1	-1	6	22	0	776.88739	21	400.514	.5684E-02	1.013
-1	-1	7	20	3	777.01995		371.040	.1667E-02	1.007
-1	-1	7	20	1	777.02647	-31	371.035	.6667E-02	1.007
-1	-1	8	18	2	777.17671	20	350.759	.7553E-02	1.004
-1	-1	8	18	0	777.18726	42	350.754	.1886E-02	1.003
-1	-1	9	16	3	777.34003	162	339.685	.8258E-02	1.001
-1	-1	9	16	1	777.34485		339.680	.4129E-02	1.001
-1	-1	10	14	2	777.51492	-10	337.813	.8758E-02	1.000
-1	-1	10	14	0	777.52155	157	337.808	.2190E-02	1.000
-1	-1	1	31	3	777.54335		644.436	.5048E-03	1.271
-1	-1	1	31	1	777.55006	-66	644.431	.2022E-02	1.273
-1	0	17	35	3	777.58637		1397.106	.1723E-04	.981
-1	0	17	35	1	777.63167		1397.100	.6856E-04	.976
-1	0	17	34	3	777.66562		1351.928	.2057E-04	.982
-1	-1	11	12	3	777.69748		345.151	.2260E-02	1.000
-1	-1	11	12	1	777.69963	-35	345.146	.9042E-02	1.000
1	-1	1	35	3	777.70750		817.656	.1055E-03	.618
-1	0	17	34	1	777.70925		1351.922	.8194E-04	.978
-1	-1	2	29	2	777.71123	-5	571.580	.2532E-02	1.114
1	-1	1	35	1	777.71941		817.651	.4206E-03	.616
-1	-1	2	29	0	777.72325	-156	571.575	.6336E-03	1.115
-1	0	17	33	3	777.74252		1308.032	.2434E-04	.983
-1	0	17	33	1	777.78440		1308.026	.9697E-04	.979
-1	0	17	32	3	777.81708		1265.418	.2857E-04	.985
-1	-1	3	27	3	777.83437	28	507.909	.3305E-02	1.060
-1	-1	3	27	1	777.84204	40	507.903	.1652E-02	1.060
-1	0	17	32	1	777.85711		1265.412	.1138E-03	.981
-1	0	17	31	3	777.88929		1224.087	.3317E-04	.986
-1	0	17	31	1	777.92740		1224.081	.1321E-03	.982
-1	-1	4	25	2	777.95786	22	453.420	.4241E-02	1.034
-1	0	17	30	3	777.95917		1184.040	.3812E-04	.987
-1	-1	4	25	0	777.97021	-116	453.415	.1061E-02	1.035
-1	0	17	30	1	777.99526		1184.034	.1520E-03	.984
-1	0	17	29	3	778.02672		1145.278	.4334E-04	.988
-1	0	17	29	1	778.06072		1145.272	.1728E-03	.985
1	-1	0	32	2	778.08097		683.798	.6353E-03	1.000
-1	-1	5	23	3	778.08248	-98	408.128	.1321E-02	1.020
1	-1	0	32	0	778.08267	-4	683.792	.1271E-02	1.000
-1	-1	5	23	1	778.08961	-15	408.122	.5283E-02	1.020
-1	0	17	28	3	778.09194		1107.800	.4876E-04	.990
-1	0	17	28	1	778.12377		1107.794	.1943E-03	.986
-1	0	17	27	3	778.15485		1071.609	.5411E-04	.991
-1	0	17	27	1	778.18442		1071.603	.2158E-03	.988
-1	0	17	26	3	778.21545		1036.704	.5923E-04	.992
-1	-1	6	21	2	778.21768	-6	372.029	.3177E-02	1.011
-1	-1	6	21	0	778.22914	14	372.023	.6353E-02	1.011
-1	0	17	26	1	778.24270		1036.699	.2362E-03	.989
-1	0	17	25	3	778.27375		1003.087	.6384E-04	.993
-1	0	17	25	1	778.29860		1003.082	.2546E-03	.990
-1	0	17	24	3	778.32974		970.758	.6760E-04	.994
-1	0	17	24	1	778.35214		970.752	.2696E-03	.991
-1	-1	7	19	3	778.35820		345.134	.1845E-02	1.006
-1	-1	7	19	1	778.36421	-22	345.129	.7380E-02	1.006
-1	0	17	23	3	778.38344		939.717	.7009E-04	.995
-1	0	17	23	1	778.40334		939.711	.2798E-03	.993
-1	0	17	22	3	778.43486		909.965	.7082E-04	.996
-1	0	17	22	1	778.45220		909.959	.2827E-03	.994
-1	0	17	21	3	778.48399		881.503	.6923E-04	.997
-1	0	17	21	1	778.49874		881.497	.2764E-03	.995
-1	-1	8	17	2	778.51041	-4	327.439	.8278E-02	1.003
-1	-1	8	17	0	778.51983	9	327.434	.2068E-02	1.002
-1	0	17	20	3	778.53085		854.331	.6465E-04	.998
-1	0	17	20	1	778.54298		854.325	.2581E-03	.996
-1	0	17	19	3	778.57544		828.449	.5628E-04	.998
-1	0	17	19	1	778.58493		828.444	.2249E-03	.997
-1	0	17	18	3	778.61776		803.859	.4340E-04	.999
-1	0	17	18	1	778.62461		803.854	.1736E-03	.999
-1	0	17	17	3	778.65783		780.560	.2500E-04	1.000
-1	0	17	17	1	778.66204		780.555	.1000E-03	1.000
-1	-1	9	15	3	778.66941	112	318.954	.8983E-02	1.001
-1	-1	9	15	1	778.67367		318.948	.4491E-02	1.001

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	-1	10	13	2	778.83977	5	319.671	.9463E-02	1.000
-1	-1	10	13	0	778.84502		319.666	.2366E-02	1.000
-1	-1	1	30	3	778.91861		604.343	.5884E-03	1.255
-1	-1	1	30	1	778.92515	-53	604.337	.2358E-02	1.257
-1	-1	11	11	3	779.01801		329.600	.2433E-02	1.000
-1	-1	11	11	1	779.01958	-23	329.594	.9733E-02	1.000
1	-1	1	34	3	779.05474		772.426	.1315E-03	.636
1	-1	1	34	1	779.06603		772.420	.5242E-03	.634
-1	-1	2	28	2	779.07384	7	534.060	.2931E-02	1.106
-1	-1	2	28	0	779.08533	97	534.055	.7335E-03	1.107
-1	-1	3	26	3	779.19011	14	472.965	.3788E-02	1.055
-1	-1	3	26	1	779.19742	51	472.959	.1894E-02	1.055
-1	-1	4	24	2	779.30806	11	421.055	.4812E-02	1.031
-1	-1	4	24	0	779.31967	-22	421.050	.1203E-02	1.031
-1	-1	5	22	3	779.42787		378.344	.1482E-02	1.018
-1	-1	5	22	1	779.43455	-25	378.339	.5930E-02	1.018
1	-1	0	31	2	779.49746		642.419	.7541E-03	1.000
1	-1	0	31	0	779.49915	29	642.413	.1508E-02	1.000
-1	-1	6	20	2	779.55833	-5	344.829	.3529E-02	1.010
-1	-1	6	20	0	779.56890	14	344.824	.7059E-02	1.010
-1	-1	7	18	3	779.69444		320.520	.2029E-02	1.005
-1	-1	7	18	1	779.69995	-29	320.514	.8114E-02	1.005
-1	-1	8	16	2	779.84209	-15	305.413	.9017E-02	1.002
-1	-1	8	16	0	779.85043	39	305.407	.2254E-02	1.002
-1	0	16	35	2	779.93442		1330.789	.9836E-04	.978
-1	-1	9	14	3	779.99675	-17	299.516	.9717E-02	1.001
-1	-1	9	14	1	780.00048		299.510	.4859E-02	1.001
-1	0	16	34	2	780.01406		1285.605	.1178E-03	.980
-1	0	16	35	0	780.08754		1330.783	.2392E-04	.951
-1	0	16	33	2	780.09132		1241.703	.1398E-03	.981
-1	-1	10	12	2	780.16258	37	302.824	.1018E-01	1.000
-1	0	16	32	2	780.16621		1199.083	.1646E-03	.983
-1	0	16	34	0	780.16638		1285.599	.2863E-04	.952
-1	-1	10	12	0	780.16652		302.818	.2545E-02	1.000
-1	0	16	31	2	780.23874		1157.747	.1918E-03	.984
-1	0	16	33	0	780.24258		1241.697	.3393E-04	.952
-1	-1	1	29	3	780.29077		565.535	.6808E-03	1.239
1	-1	2	35	2	780.29459		823.699	.4929E-03	.787

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	-1	1	29	1	780.29712	-81	565.530	.2725E-02	1.240
-1	0	16	30	2	780.30890		1117.695	.2213E-03	.985
1	-1	2	35	0	780.30982		823.693	.1227E-03	.784
-1	0	16	32	0	780.31611		1199.078	.3986E-04	.952
-1	0	16	29	2	780.37672		1078.927	.2531E-03	.987
-1	0	16	31	0	780.38696		1157.741	.4645E-04	.953
1	-1	1	33	3	780.40195		728.479	.1627E-03	.655
1	-1	1	33	1	780.41262		728.473	.6480E-03	.652
-1	-1	2	27	2	780.43402	-6	497.827	.3368E-02	1.098
-1	0	16	28	2	780.44219		1041.445	.2859E-03	.988
-1	-1	2	27	0	780.44499	-114	497.822	.8427E-03	1.099
-1	0	16	30	0	780.45507		1117.689	.5354E-04	.953
-1	0	16	27	2	780.50533		1005.249	.3194E-03	.989
-1	0	16	29	0	780.52043		1078.921	.6110E-04	.953
-1	-1	3	25	3	780.54367	7	439.310	.4310E-02	1.050
-1	-1	3	25	1	780.55060	33	439.304	.2157E-02	1.051
-1	0	16	26	2	780.56614		970.340	.3524E-03	.990
-1	0	16	28	0	780.58297		1041.439	.6897E-04	.953
-1	0	16	25	2	780.62462		936.718	.3838E-03	.992
-1	0	16	27	0	780.64264		1005.243	.7696E-04	.953
-1	-1	4	23	2	780.65616	-5	389.980	.5420E-02	1.028
-1	-1	4	23	0	780.66706	84	389.975	.1355E-02	1.028
-1	0	16	24	2	780.68079		904.384	.4112E-03	.993
-1	0	16	26	0	780.69938		970.334	.8481E-04	.953
-1	0	16	23	2	780.73465		873.339	.4328E-03	.994
-1	0	16	25	0	780.75311		936.712	.9229E-04	.954
-1	-1	5	21	3	780.77121		349.852	.1652E-02	1.016
-1	-1	5	21	1	780.77746	-32	349.846	.6609E-02	1.016
-1	0	16	22	2	780.78621		843.583	.4462E-03	.995
-1	0	16	24	0	780.80373		904.379	.9878E-04	.954
-1	0	16	21	2	780.83547		815.117	.4483E-03	.996
-1	0	16	23	0	780.85113		873.334	.1039E-03	.954
-1	0	16	20	2	780.88244		787.942	.4358E-03	.997
-1	0	16	22	0	780.89517		843.578	.1071E-03	.955
-1	-1	6	19	2	780.89696	-32	318.921	.3891E-02	1.008
-1	-1	6	19	0	780.90665	91	318.916	.7782E-02	1.008
1	-1	0	30	2	780.91052		602.325	.8884E-03	1.000
1	-1	0	30	0	780.91220	-353*	602.320	.1777E-02	1.000

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	0	16	19	2	780.92712		762.057	.4048E-03	.998
-1	0	16	21	0	780.93566		815.112	.1077E-03	.957
-1	0	16	18	2	780.96953		737.463	.3505E-03	.998
-1	0	16	20	0	780.97238		787.936	.1048E-03	.959
-1	0	16	19	0	781.00504		762.051	.9755E-04	.962
-1	0	16	17	2	781.00967		714.162	.2690E-03	.999
-1	-1	7	17	3	781.02864		297.199	.2216E-02	1.004
-1	0	16	18	0	781.03327		737.458	.8483E-04	.966
-1	-1	7	17	1	781.03368	-37	297.193	.8864E-02	1.004
-1	0	16	16	2	781.04754		692.152	.1542E-03	1.000
-1	0	16	17	0	781.05652		714.156	.6549E-04	.973
-1	0	16	16	0	781.07406		692.146	.3793E-04	.984
-1	-1	8	15	2	781.17174	-15	284.679	.9773E-02	1.002
-1	-1	8	15	0	781.17903	112	284.674	.2441E-02	1.001
-1	-1	9	13	3	781.32204	-11	281.372	.1045E-01	1.000
-1	-1	9	13	1	781.32527		281.367	.5223E-02	1.000
-1	-1	10	11	2	781.48333	42	287.271	.1091E-01	1.000
-1	-1	10	11	0	781.48603		287.265	.2728E-02	1.000
1	-1	2	34	2	781.65221		778.469	.6040E-03	.798
-1	-1	1	28	3	781.65987		528.014	.7817E-03	1.223
-1	-1	1	28	1	781.66603	-51	528.009	.3129E-02	1.224
1	-1	2	34	0	781.66667		778.463	.1506E-03	.796
1	-1	1	32	3	781.74902		685.815	.1995E-03	.673
1	-1	1	32	1	781.75911	-18	685.810	.7944E-03	.670
-1	-1	2	26	2	781.79181	5	462.883	.3841E-02	1.090
-1	-1	2	26	0	781.80224	48	462.877	.9611E-03	1.091
-1	-1	3	24	3	781.89504	43	406.944	.4873E-02	1.046
-1	-1	3	24	1	781.90161	51	406.938	.2436E-02	1.046
-1	-1	4	22	2	782.00218	21	360.196	.6060E-02	1.025
-1	-1	4	22	0	782.01235	16	360.190	.1515E-02	1.025
-1	-1	5	20	3	782.11250		322.651	.1828E-02	1.014
-1	-1	5	20	1	782.11832	-30	322.645	.7313E-02	1.014
-1	-1	6	18	2	782.23355	-15	294.306	.4264E-02	1.007
-1	-1	6	18	0	782.24238	25	294.300	.8528E-02	1.007
-1	0	15	35	3	782.28905		1268.476	.1376E-03	.977
1	-1	0	29	2	782.32011		563.518	.1039E-02	1.000
1	-1	0	29	0	782.32178	20	563.512	.2077E-02	1.000
-1	0	15	35	1	782.32359		1268.470	.6857E-04	.974
-1	-1	7	16	3	782.36080		275.171	.2405E-02	1.003
-1	-1	7	16	1	782.36539	-42	275.165	.9620E-02	1.003
-1	0	15	34	3	782.36962		1223.287	.1650E-03	.978
-1	0	15	34	1	782.40285		1223.281	.8233E-04	.976
-1	0	15	33	3	782.44780		1179.379	.1964E-03	.980
-1	0	15	33	1	782.47967		1179.373	.9792E-04	.977
-1	-1	8	14	2	782.49933	-4	265.240	.1052E-01	1.001
-1	-1	8	14	0	782.50564		265.235	.2630E-02	1.001
-1	0	15	32	3	782.52359		1136.754	.2316E-03	.981
-1	0	15	32	1	782.55406		1136.748	.1156E-03	.979
-1	0	15	31	3	782.59701		1095.412	.2710E-03	.983
-1	0	15	31	1	782.62602		1095.407	.1351E-03	.980
-1	-1	9	12	3	782.64525	-12	264.523	.1119E-01	1.000
-1	-1	9	12	1	782.64802		264.518	.5595E-02	1.000
-1	0	15	30	3	782.66804		1055.355	.3138E-03	.984
-1	0	15	30	1	782.69557		1055.349	.1566E-03	.982
-1	0	15	29	3	782.73671		1016.583	.3602E-03	.986
-1	0	15	29	1	782.76271		1016.577	.1795E-03	.983
-1	-1	10	10	2	782.80199	31	273.013	.1166E-01	1.000
-1	0	15	28	3	782.80302		979.096	.4089E-03	.987
-1	-1	10	10	0	782.80355		273.008	.2915E-02	1.000
-1	0	15	28	1	782.82745		979.090	.2040E-03	.985
-1	0	15	27	3	782.86697		942.895	.4592E-03	.988
-1	0	15	27	1	782.88981		942.889	.2291E-03	.986
-1	0	15	26	3	782.92858		907.982	.5098E-03	.989
-1	0	15	26	1	782.94980		907.976	.2544E-03	.987
1	-1	3	35	3	782.95741		833.774	.4773E-03	.849
1	-1	3	35	1	782.96642		833.768	.2384E-03	.848
-1	0	15	25	3	782.98784		874.356	.5596E-03	.991
-1	0	15	25	1	783.00742		874.350	.2792E-03	.989
1	-1	2	33	2	783.00906	95	734.522	.7345E-03	.809
1	-1	2	33	0	783.02276		734.516	.1829E-03	.806
-1	-1	1	27	3	783.02596		491.781	.8907E-03	1.207
-1	-1	1	27	1	783.03192	-17	491.776	.3569E-02	1.209
-1	0	15	24	3	783.04477		842.018	.6052E-03	.992
-1	0	15	24	1	783.06268		842.012	.3020E-03	.990
1	-1	1	31	3	783.09586		644.436	.2426E-03	.691
-1	0	15	23	3	783.09937		810.969	.6446E-03	.993

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	-1	1	31	1	783.10538	-29	644.431	.9660E-03	.688
-1	0	15	23	1	783.11561		810.963	.3217E-03	.991
-1	-1	2	25	2	783.14720	14	429.227	.4351E-02	1.083
-1	0	15	22	3	783.15164		781.209	.6746E-03	.994
-1	-1	2	25	0	783.15710	19	429.221	.1089E-02	1.084
-1	0	15	22	1	783.16620		781.204	.3370E-03	.993
-1	0	15	21	3	783.20160	109	752.740	.6914E-03	.995
-1	0	15	21	1	783.21447		752.734	.3454E-03	.994
-1	-1	3	23	3	783.24422	26	375.868	.5463E-02	1.041
-1	0	15	20	3	783.24924	146	725.561	.6908E-03	.996
-1	-1	3	23	1	783.25043	28	375.862	.2734E-02	1.042
-1	0	15	20	1	783.26043		725.555	.3450E-03	.995
-1	0	15	19	3	783.29458	51	699.673	.6678E-03	.997
-1	0	15	19	1	783.30410		699.667	.3336E-03	.996
-1	0	15	18	3	783.33762		675.076	.6169E-03	.998
-1	0	15	18	1	783.34548		675.071	.3082E-03	.997
-1	-1	4	21	2	783.34609	-9	331.702	.6727E-02	1.022
-1	-1	4	21	0	783.35556	57	331.697	.1682E-02	1.022
-1	0	15	17	3	783.37835	-1	651.771	.5315E-03	.998
-1	0	15	17	1	783.38459		651.766	.2658E-03	.998
-1	0	15	16	3	783.41680		629.759	.4058E-03	.999
-1	0	15	16	1	783.42144		629.754	.2029E-03	.999
-1	-1	5	19	3	783.45172		296.742	.2009E-02	1.012
-1	0	15	15	3	783.45296		609.039	.2315E-03	1.000
-1	0	15	15	1	783.45605		609.034	.1158E-03	1.000
-1	-1	5	19	1	783.45713	-49	296.737	.8035E-02	1.012
-1	-1	6	17	2	783.56808	-71	270.983	.4641E-02	1.006
-1	-1	6	17	0	783.57609	26	270.978	.9282E-02	1.006
-1	-1	7	15	3	783.69090		254.436	.2596E-02	1.003
-1	-1	7	15	1	783.69505	-47	254.431	.1038E-01	1.003
1	-1	0	28	2	783.72621		525.997	.1205E-02	1.000
1	-1	0	28	0	783.72787	8	525.991	.2411E-02	1.000
-1	-1	8	13	2	783.82486	4	247.096	.1127E-01	1.001
-1	-1	8	13	0	783.83022		247.090	.2818E-02	1.001
-1	-1	9	11	3	783.96638	-1	248.969	.1194E-01	1.000
-1	-1	9	11	1	783.96871		248.964	.5968E-02	1.000
1	-1	3	34	3	784.31926		788.545	.5811E-03	.857
1	-1	3	34	1	784.32786		788.539	.2902E-03	.856

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	-1	2	32	2	784.36505	62	691.859	.8853E-03	.819
1	-1	2	32	0	784.37801		691.853	.2208E-03	.817
-1	-1	1	26	3	784.38909		456.836	.1008E-02	1.192
-1	-1	1	26	1	784.39484	-55	456.830	.4035E-02	1.193
1	-1	1	30	3	784.44238		604.343	.2921E-03	.708
1	-1	1	30	1	784.45134	-38	604.337	.1165E-02	.706
-1	-1	2	24	2	784.50023	12	396.860	.4888E-02	1.075
-1	-1	2	24	0	784.50960	-14	396.855	.1223E-02	1.076
-1	-1	3	22	3	784.59122	60	346.082	.6084E-02	1.037
-1	-1	3	22	1	784.59707	60	346.077	.3045E-02	1.038
-1	0	14	35	2	784.67408		1210.163	.1878E-03	.974
-1	-1	4	20	2	784.68790	-2	304.500	.7419E-02	1.020
-1	-1	4	20	0	784.69668	72	304.495	.1855E-02	1.020
-1	0	14	34	2	784.75511		1164.968	.2259E-03	.976
-1	0	14	35	0	784.76103		1210.157	.4642E-04	.963
-1	-1	5	18	3	784.78885		272.126	.2191E-02	1.010
-1	-1	5	18	1	784.79387	-47	272.120	.8765E-02	1.010
-1	0	14	33	2	784.83371		1121.055	.2695E-03	.978
-1	0	14	34	0	784.83996		1164.962	.5583E-04	.965
-1	-1	6	16	2	784.90054	-73	248.954	.5017E-02	1.005
-1	-1	6	16	0	784.90776	34	248.949	.1003E-01	1.005
-1	0	14	32	2	784.90991		1078.426	.3185E-03	.979
-1	0	14	33	0	784.91630		1121.050	.6661E-04	.967
-1	0	14	31	2	784.98369		1037.079	.3735E-03	.981
-1	0	14	32	0	784.99005		1078.420	.7873E-04	.968
-1	-1	7	14	3	785.01892		234.996	.2782E-02	1.002
-1	-1	7	14	1	785.02265	-46	234.991	.1113E-01	1.002
-1	0	14	30	2	785.05508		997.017	.4338E-03	.982
-1	0	14	31	0	785.06123		1037.073	.9235E-04	.970
-1	0	14	29	2	785.12408		958.240	.4997E-03	.984
1	-1	0	27	2	785.12879		489.763	.1388E-02	1.000
-1	0	14	30	0	785.12982		997.011	.1074E-03	.972
1	-1	0	27	0	785.13044	-18	489.758	.2776E-02	1.000
-1	-1	8	12	2	785.14830	26	230.245	.1200E-01	1.000
-1	-1	8	12	0	785.15277		230.240	.3001E-02	1.000
-1	0	14	28	2	785.19070		920.749	.5695E-03	.985
-1	0	14	29	0	785.19583		958.234	.1235E-03	.973
-1	0	14	27	2	785.25495		884.544	.6425E-03	.986

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	0	14	28	0	785.25927		920.743	.1409E-03	.975
-1	-1	9	10	3	785.28539	-9	234.710	.1269E-01	1.000
-1	-1	9	10	1	785.28732		234.705	.6345E-02	1.000
-1	0	14	26	2	785.31682	117	849.626	.7178E-03	.988
-1	0	14	27	0	785.32015		884.538	.1592E-03	.977
-1	0	14	25	2	785.37633	65	815.996	.7921E-03	.989
-1	0	14	26	0	785.37847		849.621	.1777E-03	.978
-1	0	14	24	2	785.43349	92	783.655	.8633E-03	.990
-1	0	14	25	0	785.43423		815.991	.1962E-03	.980
-1	0	14	24	0	785.48746		783.649	.2139E-03	.981
-1	0	14	23	2	785.48831	-37	752.602	.9282E-03	.991
-1	0	14	23	0	785.53815		752.597	.2302E-03	.983
-1	0	14	22	2	785.54078	12	722.839	.9837E-03	.993
-1	0	14	22	0	785.58633		722.834	.2440E-03	.985
-1	0	14	21	2	785.59092	28	694.367	.1023E-02	.994
-1	0	14	21	0	785.63201		694.361	.2541E-03	.987
-1	0	14	20	2	785.63873	14	667.184	.1043E-02	.995
1	-1	4	35	2	785.65948		847.873	.4347E-03	.880
1	-1	4	35	0	785.67168		847.867	.1085E-03	.879
-1	0	14	20	0	785.67521		667.179	.2589E-03	.988
1	-1	3	33	3	785.68003		744.599	.7013E-03	.864
-1	0	14	19	2	785.68422	72	641.293	.1036E-02	.996
1	-1	3	33	1	785.68822		744.593	.3502E-03	.863
-1	0	14	19	0	785.71594		641.288	.2575E-03	.990
1	-1	2	31	2	785.72012		650.481	.1059E-02	.829
-1	0	14	18	2	785.72739	44	616.694	.9963E-03	.997
1	-1	2	31	0	785.73237		650.475	.2640E-03	.827
-1	-1	1	25	3	785.74931		423.180	.1131E-02	1.177
-1	0	14	18	0	785.75424		616.688	.2478E-03	.992
-1	-1	1	25	1	785.75484	-52	423.174	.4533E-02	1.179
-1	0	14	17	2	785.76826		593.386	.9156E-03	.998
1	-1	1	29	3	785.78846		565.535	.3493E-03	.726
-1	0	14	17	0	785.79014		593.381	.2280E-03	.994
1	-1	1	29	1	785.79690	-57	565.530	.1391E-02	.723
-1	0	14	16	2	785.80682		571.371	.7848E-03	.998
-1	0	14	16	0	785.82365		571.366	.1956E-03	.995
-1	0	14	15	2	785.84308		550.649	.5964E-03	.999
-1	-1	2	23	2	785.85090	3	365.783	.5458E-02	1.069

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	0	14	15	0	785.85483		550.644	.1488E-03	.997
-1	-1	2	23	0	785.85974	-3	365.778	.1366E-02	1.070
-1	0	14	14	2	785.87705		531.221	.3387E-03	1.000
-1	0	14	14	0	785.88370		531.215	.8460E-04	.999
-1	-1	3	21	3	785.93603	169	317.588	.6724E-02	1.033
-1	-1	3	21	1	785.94154		317.582	.3365E-02	1.034
-1	-1	4	19	2	786.02759	-5	278.590	.8114E-02	1.017
-1	-1	4	19	0	786.03570	100	278.585	.2029E-02	1.017
-1	-1	5	17	3	786.12390		248.802	.2376E-02	1.009
-1	-1	5	17	1	786.12853	-46	248.797	.9502E-02	1.009
-1	-1	6	15	2	786.23092	-79	228.219	.5387E-02	1.004
-1	-1	6	15	0	786.23738	24	228.213	.1077E-01	1.004
-1	-1	7	13	3	786.34484		216.850	.2964E-02	1.001
-1	-1	7	13	1	786.34818	-51	216.845	.1186E-01	1.001
-1	-1	8	11	2	786.46963	40	214.690	.1274E-01	1.000
-1	-1	8	11	0	786.47328		214.685	.3184E-02	1.000
1	-1	0	26	2	786.52781		454.818	.1586E-02	1.000
1	-1	0	26	0	786.52945	3	454.812	.3172E-02	1.000
-1	-1	9	9	3	786.60227	-9	221.747	.1346E-01	1.000
-1	-1	9	9	1	786.60383		221.742	.6731E-02	1.000
1	-1	4	34	2	787.02359		802.646	.5267E-03	.886
1	-1	4	34	0	787.03521		802.640	.1315E-03	.885
1	-1	3	32	3	787.03965		701.937	.8397E-03	.871
1	-1	3	32	1	787.04745		701.931	.4199E-03	.871
-1	0	13	35	3	787.06729		1155.861	.6274E-04	.972
1	-1	2	30	2	787.07419	62	610.388	.1258E-02	.840
1	-1	2	30	0	787.08575		610.382	.3133E-03	.837
-1	0	13	35	1	787.09473		1155.855	.2504E-03	.970
-1	-1	1	24	3	787.10667		390.813	.1261E-02	1.163
-1	-1	1	24	1	787.11198	-47	390.807	.5049E-02	1.164
1	-1	1	28	3	787.13402		528.014	.4137E-03	.743
1	-1	1	28	1	787.14195	-22	528.009	.1650E-02	.741
-1	0	13	34	3	787.14923		1110.661	.7559E-04	.974
-1	0	13	34	1	787.17562		1110.655	.3017E-03	.972
-1	-1	2	22	2	787.19923	-12	335.997	.6042E-02	1.062
-1	-1	2	22	0	787.20754	74	335.992	.1512E-02	1.063
-1	0	13	33	3	787.22872		1066.744	.9025E-04	.975
-1	0	13	33	1	787.25404		1066.738	.3606E-03	.974

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i	ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	-1	3	20	3	787.27866	153	290.385	.7383E-02	1.030	-1	0	13	20	3	788.04335		612.823	.3778E-03	.994
-1	-1	3	20	1	787.28383		290.380	.3691E-02	1.030	-1	0	13	20	1	788.05339	-5	612.817	.1510E-02	.993
-1	0	13	32	3	787.30578		1024.109	.1070E-03	.977	-1	0	13	19	3	788.08942		586.929	.3829E-03	.995
-1	0	13	32	1	787.33000		1024.103	.4271E-03	.975	-1	0	13	19	1	788.09829	24	586.924	.1530E-02	.994
-1	-1	4	18	2	787.36516	-18	253.973	.8816E-02	1.015	-1	0	13	18	3	788.13315		562.327	.3782E-03	.996
-1	-1	4	18	0	787.37262	120	253.968	.2204E-02	1.015	-1	0	13	18	1	788.14088	-9	562.321	.1511E-02	.995
-1	0	13	31	3	787.38042		982.758	.1258E-03	.979	-1	0	13	17	3	788.17454		539.017	.3617E-03	.997
-1	0	13	31	1	787.40351		982.752	.5021E-03	.977	-1	0	13	17	1	788.18116	36	539.011	.1445E-02	.996
-1	0	13	30	3	787.45263		942.692	.1465E-03	.980	-1	0	13	16	3	788.21361		517.000	.3307E-03	.998
-1	-1	5	16	3	787.45684		226.772	.2554E-02	1.007	-1	0	13	16	1	788.21914	-43	516.994	.1321E-02	.997
-1	-1	5	16	1	787.46110	-47	226.767	.1022E-01	1.007	-1	0	13	15	3	788.25035		496.275	.2821E-03	.998
-1	0	13	30	1	787.47459		942.686	.5852E-03	.979	-1	0	13	15	1	788.25483	-29	496.270	.1128E-02	.998
-1	0	13	29	3	787.52244		903.911	.1692E-03	.982	-1	0	13	14	3	788.28477		476.844	.2134E-03	.999
-1	0	13	29	1	787.54323		903.905	.6754E-03	.980	-1	0	13	14	1	788.28823	-31	476.839	.8534E-03	.999
-1	-1	6	14	2	787.55920	-95	208.778	.5746E-02	1.003	-1	0	13	13	3	788.31688		458.707	.1207E-03	1.000
-1	-1	6	14	0	787.56493	14	208.772	.1149E-01	1.003	-1	0	13	13	1	788.31937	201*	458.702	.4828E-03	1.000
-1	0	13	28	3	787.58984		866.415	.1935E-03	.983	1	-1	5	35	3	788.38224		866.004	.9543E-04	.899
-1	0	13	28	1	787.60946		866.409	.7731E-03	.982	1	-1	4	33	2	788.38645	147	758.701	.6332E-03	.892
-1	0	13	27	3	787.65485		830.206	.2193E-03	.985	1	-1	5	35	1	788.38997		865.998	.3813E-03	.898
-1	-1	7	12	3	787.66865		199.999	.3143E-02	1.001	1	-1	4	33	0	788.39750		758.695	.1581E-03	.891
-1	-1	7	12	1	787.67163	-37	199.994	.1257E-01	1.001	1	-1	3	31	3	788.39806	128	660.559	.9988E-03	.879
-1	0	13	27	1	787.67328		830.201	.8756E-03	.983	1	-1	3	31	1	788.40548		660.553	.4988E-03	.878
-1	0	13	26	3	787.71746		795.285	.2459E-03	.986	1	-1	2	29	2	788.42719	22	571.580	.1479E-02	.849
-1	0	13	26	1	787.73470	-55	795.279	.9827E-03	.985	1	-1	2	29	0	788.43808		571.575	.3688E-03	.847
-1	0	13	25	3	787.77770		761.651	.2731E-03	.988	-1	-1	1	23	3	788.46122		359.736	.1395E-02	1.149
-1	-1	8	10	2	787.78884	68	200.430	.1346E-01	1.000	-1	-1	1	23	1	788.46629	-116	359.730	.5583E-02	1.150
-1	-1	8	10	0	787.79172		200.425	.3365E-02	1.000	1	-1	1	27	3	788.47895		491.781	.4852E-03	.759
-1	0	13	25	1	787.79373	-421*	761.646	.1090E-02	.986	1	-1	1	27	1	788.48640	-37	491.776	.1936E-02	.757
-1	0	13	24	3	787.83555		729.306	.2995E-03	.989	-1	-1	2	21	2	788.54523	-19	307.503	.6642E-02	1.056
-1	0	13	24	1	787.85038	-14	729.301	.1197E-02	.988	-1	-1	2	21	0	788.55301	-120	307.497	.1662E-02	1.057
-1	0	13	23	3	787.89104		698.250	.3244E-03	.990	-1	-1	3	19	3	788.61910	134	264.475	.8034E-02	1.026
-1	0	13	23	1	787.90466	-362*	698.245	.1296E-02	.989	-1	-1	3	19	1	788.62394		264.469	.4017E-02	1.026
1	-1	0	25	2	787.92325		421.161	.1798E-02	1.000	-1	-1	4	17	2	788.70059	-5	230.649	.9507E-02	1.013
1	-1	0	25	0	787.92489	-6	421.156	.3595E-02	1.000	-1	-1	4	17	0	788.70743	90	230.643	.2377E-02	1.013
-1	0	13	22	3	787.94416		668.484	.3467E-03	.991	-1	-1	5	15	3	788.78767		206.036	.2730E-02	1.006
-1	0	13	22	1	787.95658	-66	668.479	.1385E-02	.990	-1	-1	5	15	1	788.79158	-60	206.030	.1092E-01	1.006
-1	0	13	21	3	787.99493		640.008	.3653E-03	.993	-1	-1	6	13	2	788.88537		190.631	.6089E-02	1.002
-1	0	13	21	1	788.00615	-8	640.003	.1460E-02	.992	-1	-1	6	13	0	788.89041	-143	190.625	.1218E-01	1.002

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	-1	7	11	3	788.99033		184.443	.3316E-02	1.001
-1	-1	7	11	1	788.99297	-48	184.438	.1326E-01	1.001
-1	-1	8	9	2	789.10590	40	187.466	.1419E-01	1.000
-1	-1	8	9	0	789.10809		187.461	.3547E-02	1.000
1	-1	0	24	2	789.31508		388.794	.2021E-02	1.000
1	-1	0	24	0	789.31671	-9	388.789	.4042E-02	1.000
-1	0	12	35	2	789.48924		1105.565	.1639E-03	.969
-1	0	12	35	0	789.54764		1105.559	.3258E-03	.963
-1	0	12	34	2	789.57170		1060.361	.1977E-03	.971
-1	0	12	34	0	789.62829		1060.355	.3931E-03	.965
-1	0	12	33	2	789.65169		1016.439	.2367E-03	.973
-1	0	12	33	0	789.70639		1016.433	.4706E-03	.967
-1	0	12	32	2	789.72922		973.800	.2808E-03	.974
1	-1	4	32	2	789.74801	70	716.040	.7554E-03	.898
1	-1	5	34	3	789.74805		820.778	.1152E-03	.904
1	-1	3	30	3	789.75521	616*	620.467	.1177E-02	.886
1	-1	5	34	1	789.75544		820.773	.4604E-03	.903
1	-1	4	32	0	789.75850		716.034	.1884E-03	.896
1	-1	3	30	1	789.76225		620.461	.5879E-03	.885
1	-1	2	28	2	789.77905	-92	534.060	.1726E-02	.859
-1	0	12	32	0	789.78195		973.794	.5588E-03	.969
1	-1	2	28	0	789.78930		534.055	.4306E-03	.857
-1	0	12	31	2	789.80430		932.445	.3308E-03	.976
-1	-1	1	22	3	789.81299		329.949	.1531E-02	1.136
-1	-1	1	22	1	789.81783	-38	329.944	.6129E-02	1.137
1	-1	1	26	3	789.82316		456.836	.5642E-03	.775
1	-1	1	26	1	789.83014	-39	456.830	.2254E-02	.774
-1	0	12	31	0	789.85497		932.439	.6583E-03	.971
-1	0	12	30	2	789.87693		892.374	.3864E-03	.978
-1	-1	2	20	2	789.88891	-14	280.299	.7243E-02	1.050
-1	-1	2	20	0	789.89618	118	280.294	.1812E-02	1.051
-1	0	12	30	0	789.92547		892.369	.7682E-03	.972
-1	0	12	29	2	789.94713		853.589	.4476E-03	.980
-1	-1	3	18	3	789.95736	136	239.857	.8683E-02	1.023
-1	-1	3	18	1	789.96187		239.851	.4342E-02	1.023
-1	0	12	29	0	789.99346	109	853.584	.8897E-03	.974
-1	0	12	28	2	790.01490		816.090	.5133E-03	.981
-1	-1	4	16	2	790.03389	-9	208.618	.1017E-01	1.011

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	-1	4	16	0	790.04012		208.612	.2543E-02	1.011
-1	0	12	28	0	790.05895	-60	816.084	.1021E-02	.976
-1	0	12	27	2	790.08025		779.878	.5838E-03	.983
-1	-1	5	14	3	790.11636		186.593	.2896E-02	1.005
-1	-1	5	14	1	790.11994	-40	186.588	.1158E-01	1.005
-1	0	12	27	0	790.12196	-242*	779.872	.1162E-02	.978
-1	0	12	26	2	790.14319	-22	744.953	.6571E-03	.984
-1	0	12	26	0	790.18249	40	744.947	.1309E-02	.980
-1	0	12	25	2	790.20372		711.316	.7329E-03	.986
-1	-1	6	12	2	790.20940		173.779	.6418E-02	1.002
-1	-1	6	12	0	790.21380	-112	173.773	.1284E-01	1.002
-1	0	12	25	0	790.24056	-150	711.310	.1458E-02	.981
-1	0	12	24	2	790.26186	73	678.967	.8080E-03	.987
-1	0	12	24	0	790.29618	246*	678.962	.1609E-02	.983
-1	-1	7	10	3	790.30986		170.182	.3478E-02	1.000
-1	-1	7	10	1	790.31218	-36	170.177	.1391E-01	1.000
-1	0	12	23	2	790.31761		647.908	.8816E-03	.989
-1	0	12	23	0	790.34937	8	647.903	.1756E-02	.985
-1	0	12	22	2	790.37098	-12	618.139	.9492E-03	.990
-1	0	12	22	0	790.40015	-22	618.134	.1891E-02	.986
-1	-1	8	8	2	790.42081	33	175.797	.1493E-01	1.000
-1	0	12	21	2	790.42198	-84	589.660	.1008E-02	.991
-1	-1	8	8	0	790.42236		175.792	.3734E-02	1.000
-1	0	12	21	0	790.44853	33	589.655	.2011E-02	.988
-1	0	12	20	2	790.47060	7	562.472	.1055E-02	.992
-1	0	12	20	0	790.49452	-18	562.467	.2104E-02	.989
-1	0	12	19	2	790.51687	23	536.576	.1086E-02	.994
-1	0	12	19	0	790.53815	23	536.570	.2165E-02	.991
-1	0	12	18	2	790.56078	-335*	511.971	.1094E-02	.995
-1	0	12	18	0	790.57943	5	511.966	.2182E-02	.992
-1	0	12	17	2	790.60234	34	488.659	.1075E-02	.996
-1	0	12	17	0	790.61838	20	488.653	.2146E-02	.994
-1	0	12	16	2	790.64156	-176*	466.639	.1023E-02	.997
-1	0	12	16	0	790.65502	-11	466.634	.2041E-02	.995
-1	0	12	15	2	790.67844	-2	445.913	.9301E-03	.998
-1	0	12	15	0	790.68937	9	445.908	.1857E-02	.996
1	-1	0	23	2	790.70328		357.717	.2254E-02	1.000
1	-1	0	23	0	790.70490	-16	357.712	.4508E-02	1.000

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	0	12	14	2	790.71299		426.480	.7896E-03	.998
-1	0	12	14	0	790.72145	7	426.475	.1578E-02	.997
-1	0	12	13	2	790.74521		408.341	.5946E-03	.999
-1	0	12	13	0	790.75128	-8	408.336	.1189E-02	.999
-1	0	12	12	2	790.77511		391.497	.3351E-03	1.000
-1	0	12	12	0	790.77887	152	391.491	.6701E-03	1.000
1	-1	4	31	2	791.10821	185*	674.664	.8928E-03	.903
1	-1	3	29	3	791.11103	-97	581.661	.1375E-02	.892
1	-1	5	33	3	791.11250		776.835	.1380E-03	.909
1	-1	3	29	1	791.11771		581.655	.6873E-03	.892
1	-1	4	31	0	791.11816		674.658	.2230E-03	.902
1	-1	5	33	1	791.11956	-162	776.830	.5515E-03	.908
1	-1	2	27	2	791.12970	34	497.827	.1997E-02	.868
1	-1	6	35	2	791.13037		888.158	.1627E-03	.911
1	-1	2	27	0	791.13932		497.822	.4980E-03	.866
1	-1	6	35	0	791.14070		888.152	.3249E-03	.910
-1	-1	1	21	3	791.16204		301.454	.1666E-02	1.123
1	-1	1	25	3	791.16655		423.180	.6506E-03	.791
-1	-1	1	21	1	791.16665	-55	301.449	.6672E-02	1.124
1	-1	1	25	1	791.17308	55	423.174	.2599E-02	.790
-1	-1	2	19	2	791.23028	-20	254.388	.7841E-02	1.045
-1	-1	2	19	0	791.23705	100	254.383	.1960E-02	1.045
-1	-1	3	17	3	791.29341	107	216.532	.9310E-02	1.020
-1	-1	3	17	1	791.29761		216.526	.4655E-02	1.020
-1	-1	4	15	2	791.36504	-14	187.881	.1080E-01	1.009
-1	-1	4	15	0	791.37069		187.875	.2701E-02	1.009
-1	-1	5	13	3	791.44290		168.446	.3051E-02	1.004
-1	-1	5	13	1	791.44617	-61	168.440	.1220E-01	1.004
-1	-1	6	11	2	791.53129		158.222	.6720E-02	1.001
-1	-1	6	11	0	791.53509	147	158.216	.1344E-01	1.001
-1	-1	7	9	3	791.62723		157.217	.3639E-02	1.000
-1	-1	7	9	1	791.62926	-51	157.212	.1455E-01	1.000
-1	0	11	35	3	791.92059		1059.286	.1047E-03	.966
-1	0	11	35	1	791.94299		1059.280	.4180E-03	.964
-1	0	11	34	3	792.00397		1014.078	.1265E-03	.968
-1	0	11	34	1	792.02552		1014.072	.5050E-03	.966
-1	0	11	33	3	792.08485		970.152	.1517E-03	.970
1	-1	0	22	2	792.08781		327.931	.2493E-02	1.000

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	-1	0	22	0	792.08942	-21	327.925	.4986E-02	1.000
-1	0	11	33	1	792.10554		970.146	.6054E-03	.968
-1	0	11	32	3	792.16325		927.509	.1804E-03	.972
-1	0	11	32	1	792.18306		927.503	.7201E-03	.970
-1	0	11	31	3	792.23917		886.150	.2129E-03	.974
-1	0	11	31	1	792.25809		886.144	.8497E-03	.972
-1	0	11	30	3	792.31262		846.076	.2491E-03	.976
-1	0	11	30	1	792.33063	-87	846.070	.9945E-03	.974
-1	0	11	29	3	792.38360		807.287	.2889E-03	.977
-1	0	11	29	1	792.40071	-70	807.281	.1154E-02	.976
-1	0	11	28	3	792.45214		769.784	.3324E-03	.979
1	-1	3	28	3	792.46548	135	544.141	.1594E-02	.899
1	-1	4	30	2	792.46700	-17	634.573	.1048E-02	.909
-1	0	11	28	1	792.46833	-150	769.779	.1328E-02	.978
1	-1	3	28	1	792.47180		544.135	.7960E-03	.898
1	-1	5	32	3	792.47554		734.176	.1638E-03	.913
1	-1	4	30	0	792.47642		634.567	.2617E-03	.908
1	-1	2	26	2	792.47908	57	462.883	.2290E-02	.877
1	-1	5	32	1	792.48227	-262*	734.170	.6553E-03	.913
1	-1	2	26	0	792.48810		462.877	.5712E-03	.875
1	-1	6	34	2	792.49734		842.934	.1957E-03	.915
1	-1	6	34	0	792.50718		842.928	.3914E-03	.915
-1	-1	1	20	3	792.50840		274.250	.1800E-02	1.111
1	-1	1	24	3	792.50901		390.813	.7436E-03	.807
-1	-1	1	20	1	792.51277	-26	274.245	.7208E-02	1.112
1	-1	1	24	1	792.51512	-262*	390.807	.2967E-02	.805
-1	0	11	27	3	792.51822		733.568	.3792E-03	.981
-1	0	11	27	1	792.53350	-56	733.563	.1515E-02	.980
-1	-1	2	18	2	792.56935	-17	229.770	.8411E-02	1.039
-1	-1	2	18	0	792.57562		229.764	.2105E-02	1.040
-1	0	11	26	3	792.58188		698.640	.4282E-03	.982
-1	0	11	26	1	792.59623	-47	698.635	.1711E-02	.981
-1	-1	3	16	3	792.62727	-42	194.500	.9901E-02	1.017
-1	-1	3	16	1	792.63118		194.495	.4950E-02	1.017
-1	0	11	25	3	792.64310		665.000	.4793E-03	.984
-1	0	11	25	1	792.65653	-68	664.994	.1915E-02	.983
-1	-1	4	14	2	792.69402	2	168.438	.1138E-01	1.007
-1	-1	4	14	0	792.69913		168.432	.2846E-02	1.007

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	0	11	24	3	792.70190		632.649	.5313E-03	.986
-1	0	11	24	1	792.71442	-12	632.643	.2123E-02	.985
-1	0	11	23	3	792.75829	-69	601.587	.5821E-03	.987
-1	-1	5	12	3	792.76729		151.593	.3192E-02	1.003
-1	0	11	23	1	792.76990	-30	601.581	.2326E-02	.986
-1	-1	5	12	1	792.77026	-65	151.588	.1277E-01	1.003
-1	0	11	22	3	792.81227		571.815	.6306E-03	.988
-1	0	11	22	1	792.82298	-21	571.809	.2522E-02	.988
-1	-1	6	10	2	792.85101		143.960	.7004E-02	1.001
-1	-1	6	10	0	792.85426	125	143.955	.1401E-01	1.001
-1	0	11	21	3	792.86386		543.333	.6755E-03	.990
-1	0	11	21	1	792.87367	-29	543.328	.2699E-02	.989
-1	0	11	20	3	792.91304		516.143	.7132E-03	.991
-1	0	11	20	1	792.92198	-23	516.137	.2850E-02	.990
-1	-1	7	8	3	792.94240		145.548	.3798E-02	1.000
-1	-1	7	8	1	792.94417	-35	145.542	.1519E-01	1.000
-1	0	11	19	3	792.95985		490.244	.7418E-03	.992
-1	0	11	19	1	792.96792	58	490.239	.2967E-02	.992
-1	0	11	18	3	793.00427		465.637	.7592E-03	.994
-1	0	11	18	1	793.01150	15	465.632	.3034E-02	.993
-1	0	11	17	3	793.04632		442.323	.7605E-03	.995
-1	0	11	17	1	793.05273	-22	442.317	.3039E-02	.994
-1	0	11	16	3	793.08600		420.301	.7431E-03	.996
-1	0	11	16	1	793.09162	28	420.296	.2970E-02	.995
-1	0	11	15	3	793.12332		399.573	.7032E-03	.997
-1	0	11	15	1	793.12817	14	399.567	.2810E-02	.996
-1	0	11	14	3	793.15827		380.138	.6364E-03	.998
-1	0	11	14	1	793.16240	-63	380.133	.2543E-02	.997
-1	0	11	13	3	793.19088		361.997	.5378E-03	.998
-1	0	11	13	1	793.19430	-73	361.992	.2151E-02	.998
-1	0	11	12	3	793.22114		345.151	.4034E-03	.999
-1	0	11	12	1	793.22390	6	345.146	.1613E-02	.999
-1	0	11	11	3	793.24905		329.600	.2265E-03	1.000
-1	0	11	11	1	793.25119	-51	329.594	.9060E-03	1.000
1	-1	0	21	2	793.46865		299.435	.2733E-02	1.000
1	-1	0	21	0	793.47025	0	299.430	.5467E-02	1.000
1	-1	3	27	3	793.81848	-48	507.909	.1832E-02	.906
1	-1	4	29	2	793.82433	197*	595.767	.1218E-02	.914

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	-1	3	27	1	793.82447		507.903	.9151E-03	.905
1	-1	2	25	2	793.82711	-81	429.227	.2604E-02	.886
1	-1	4	29	0	793.83324		595.762	.3043E-03	.913
1	-1	2	25	0	793.83555		429.221	.6495E-03	.884
1	-1	5	31	3	793.83712		692.801	.1931E-03	.918
1	-1	5	31	1	793.84353		692.795	.7714E-03	.917
1	-1	1	23	3	793.85046		359.736	.8412E-03	.822
-1	-1	1	19	3	793.85211		248.339	.1930E-02	1.100
1	-1	1	23	1	793.85616	-68	359.730	.3357E-02	.820
-1	-1	1	19	1	793.85626	-77	248.334	.7726E-02	1.101
1	-1	6	33	2	793.86287		798.993	.2338E-03	.920
1	-1	6	33	0	793.87224		798.987	.4670E-03	.919
1	-1	7	35	3	793.89467		914.341	.6756E-04	.920
1	-1	7	35	1	793.90147		914.335	.2703E-03	.920
-1	-1	2	17	2	793.90612	6	206.444	.8962E-02	1.035
-1	-1	2	17	0	793.91192		206.439	.2240E-02	1.035
-1	-1	3	15	3	793.95893	-20	173.762	.1044E-01	1.014
-1	-1	3	15	1	793.96255		173.757	.5226E-02	1.015
-1	-1	4	13	2	794.02083	45	150.290	.1192E-01	1.006
-1	-1	4	13	0	794.02542		150.284	.2979E-02	1.006
-1	-1	5	11	3	794.08950		136.035	.3317E-02	1.002
-1	-1	5	11	1	794.09220	-48	136.030	.1327E-01	1.002
-1	-1	6	9	2	794.16854		130.995	.7259E-02	1.000
-1	-1	6	9	0	794.17129	109	130.989	.1452E-01	1.000
-1	-1	7	7	3	794.25536		135.175	.3964E-02	1.000
-1	-1	7	7	1	794.25691	-23	135.169	.1586E-01	1.000
-1	0	10	35	2	794.37922		1017.019	.5227E-03	.961
-1	0	10	35	0	794.42185		1017.013	.1301E-03	.957
-1	0	10	34	2	794.46321		971.806	.6329E-03	.964
-1	0	10	34	0	794.50439		971.801	.1576E-03	.960
-1	0	10	33	2	794.54468	-40	927.877	.7596E-03	.966
-1	0	10	33	0	794.58437		927.871	.1891E-03	.962
-1	0	10	32	2	794.62362	8	885.230	.9048E-03	.968
-1	0	10	32	0	794.66179		885.224	.2253E-03	.964
-1	0	10	31	2	794.70006	8	843.868	.1069E-02	.970
-1	0	10	31	0	794.73665		843.862	.2665E-03	.967
-1	0	10	30	2	794.77400	26	803.790	.1254E-02	.972
-1	0	10	30	0	794.80898		803.785	.3124E-03	.969

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	0	10	29	2	794.84544	86	764.998	.1458E-02	.974
1	-1	0	20	2	794.84576		272.232	.2971E-02	1.000
1	-1	0	20	0	794.84736	2	272.226	.5941E-02	1.000
-1	0	10	29	0	794.87879		764.993	.3633E-03	.971
-1	0	10	28	2	794.91441	63	727.492	.1681E-02	.976
-1	0	10	28	0	794.94609		727.487	.4190E-03	.973
-1	0	10	27	2	794.98091	16	691.274	.1922E-02	.978
-1	0	10	27	0	795.01089		691.268	.4791E-03	.975
-1	0	10	26	2	795.04494	29	656.342	.2179E-02	.980
-1	0	10	26	0	795.07321		656.337	.5430E-03	.977
-1	0	10	25	2	795.10652	6	622.699	.2447E-02	.982
-1	0	10	25	0	795.13306		622.694	.6098E-03	.979
-1	0	10	24	2	795.16566	16	590.345	.2719E-02	.983
1	-1	3	26	3	795.17000	336*	472.965	.2086E-02	.912
1	-1	2	24	2	795.17373	-37	396.860	.2932E-02	.894
1	-1	3	26	1	795.17566		472.959	.1042E-02	.911
1	-1	4	28	2	795.18016	129	558.249	.1404E-02	.919
1	-1	2	24	0	795.18161		396.855	.7313E-03	.892
1	-1	4	28	0	795.18856		558.243	.3507E-03	.918
-1	0	10	24	0	795.19046		590.340	.6784E-03	.981
1	-1	1	22	3	795.19079		329.949	.9420E-03	.836
-1	-1	1	18	3	795.19322		223.720	.2050E-02	1.089
1	-1	1	22	1	795.19611	10	329.944	.3764E-02	.835
-1	-1	1	18	1	795.19713	-92	223.715	.8208E-02	1.090
1	-1	5	30	3	795.19720		652.711	.2256E-03	.923
1	-1	5	30	1	795.20330		652.706	.9015E-03	.922
-1	0	10	23	2	795.22236	-48	559.281	.2995E-02	.985
1	-1	6	32	2	795.22692		756.336	.2767E-03	.924
1	-1	6	32	0	795.23582	464*	756.330	.5527E-03	.923
-1	-1	2	16	2	795.24060	-12	184.412	.9457E-02	1.030
-1	0	10	23	0	795.24541		559.275	.7472E-03	.983
-1	-1	2	16	0	795.24594		184.407	.2364E-02	1.030
1	-1	7	34	3	795.26273		869.120	.8106E-04	.924
1	-1	7	34	1	795.26924		869.114	.3239E-03	.923
-1	0	10	22	2	795.27663	21	529.506	.3264E-02	.987
-1	-1	3	14	3	795.28837	-38	154.319	.1093E-01	1.012
-1	-1	3	14	1	795.29172		154.314	.5466E-02	1.012
-1	0	10	22	0	795.29794		529.501	.8135E-03	.984

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	0	10	21	2	795.32848	29	501.023	.3514E-02	.988
-1	-1	4	12	2	795.34545	61	133.436	.1237E-01	1.005
-1	0	10	21	0	795.34805		501.017	.8766E-03	.986
-1	-1	4	12	0	795.34955		133.431	.3094E-02	1.005
-1	0	10	20	2	795.37793	23	473.830	.3737E-02	.989
-1	0	10	20	0	795.39576	31	473.824	.9333E-03	.988
-1	-1	5	10	3	795.40952		121.773	.3425E-02	1.001
-1	-1	5	10	1	795.41196	-51	121.768	.1370E-01	1.001
-1	0	10	19	2	795.42496	17	447.929	.3926E-02	.991
-1	0	10	19	0	795.44108	-7	447.923	.9794E-03	.989
-1	0	10	18	2	795.46960	-37	423.320	.4059E-02	.992
-1	-1	6	8	2	795.48388		119.325	.7505E-02	1.000
-1	0	10	18	0	795.48403		423.314	.1014E-02	.991
-1	-1	6	8	0	795.48617	79	119.319	.1501E-01	1.000
-1	0	10	17	2	795.51185	-5	400.003	.4125E-02	.993
-1	0	10	17	0	795.52463	20	399.998	.1030E-02	.992
-1	0	10	16	2	795.55171	4	377.980	.4109E-02	.994
-1	0	10	16	0	795.56288	390*	377.974	.1026E-02	.993
-1	0	10	15	2	795.58920	16	357.250	.3997E-02	.996
-1	0	10	15	0	795.59879	64	357.244	.9984E-03	.995
-1	0	10	14	2	795.62431	91	337.813	.3763E-02	.997
-1	0	10	14	0	795.63239		337.808	.9398E-03	.996
-1	0	10	13	2	795.65706	-35	319.671	.3389E-02	.998
-1	0	10	13	0	795.66368		319.666	.8464E-03	.997
-1	0	10	12	2	795.68744	-5	302.824	.2851E-02	.998
-1	0	10	12	0	795.69268		302.818	.7128E-03	.998
-1	0	10	11	2	795.71547	-7	287.271	.2130E-02	.999
-1	0	10	11	0	795.71939		287.265	.5326E-03	.999
-1	0	10	10	2	795.74115	150	273.013	.1193E-02	1.000
-1	0	10	10	0	795.74384		273.008	.2982E-03	1.000
1	-1	0	19	2	796.21913		246.320	.3199E-02	1.000
1	-1	0	19	0	796.22072	9	246.315	.6398E-02	1.000
1	-1	2	23	2	796.51888	74	365.783	.3271E-02	.902
1	-1	3	25	3	796.51998	-36	439.310	.2354E-02	.918
1	-1	3	25	1	796.52532		439.304	.1176E-02	.917
1	-1	2	23	0	796.52623		365.778	.8169E-03	.901
1	-1	1	21	3	796.52992		301.454	.1045E-02	.850
-1	-1	1	17	3	796.53176		200.394	.2160E-02	1.079

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	-1	4	27	2	796.53443	22	522.018	.1605E-02	.924
1	-1	1	21	1	796.53488	-22	301.449	.4175E-02	.849
-1	-1	1	17	1	796.53544	-79	200.389	.8640E-02	1.079
1	-1	4	27	0	796.54235		522.012	.4008E-03	.923
1	-1	5	29	3	796.55573		613.908	.2611E-03	.927
1	-1	5	29	1	796.56153	172	613.902	.1043E-02	.926
-1	-1	2	15	2	796.57280	10	163.674	.9899E-02	1.026
-1	-1	2	15	0	796.57769		163.669	.2475E-02	1.026
1	-1	6	31	2	796.58944		714.963	.3247E-03	.928
1	-1	6	31	0	796.59789	-114	714.957	.6486E-03	.927
-1	-1	3	13	3	796.61559	-25	136.170	.1135E-01	1.010
-1	-1	3	13	1	796.61869		136.165	.5673E-02	1.010
1	-1	7	33	3	796.62929		825.181	.9645E-04	.928
1	-1	7	33	1	796.63551		825.175	.3854E-03	.927
-1	-1	4	11	2	796.66788	50	117.878	.1274E-01	1.003
-1	-1	4	11	0	796.67152		117.873	.3185E-02	1.003
1	-1	8	35	2	796.68154		944.544	.2191E-03	.927
1	-1	8	35	0	796.69045		944.538	.5471E-04	.926
-1	-1	5	9	3	796.72732		108.807	.3520E-02	1.001
-1	-1	5	9	1	796.72954	-43	108.802	.1408E-01	1.001
-1	-1	6	7	2	796.79699		108.951	.7747E-02	1.000
-1	-1	6	7	0	796.79888	53	108.945	.1549E-01	1.000
-1	0	9	35	3	796.84811		978.773	.6390E-03	.957
-1	0	9	35	1	796.86674		978.767	.3188E-03	.955
-1	0	9	34	3	796.93308		933.558	.7736E-03	.959
-1	0	9	34	1	796.95101		933.552	.3864E-03	.958
-1	0	9	33	3	797.01549		889.625	.9305E-03	.962
-1	0	9	33	1	797.03271		889.619	.4643E-03	.960
-1	0	9	32	3	797.09534		846.975	.1110E-02	.964
-1	0	9	32	1	797.11185		846.969	.5543E-03	.963
-1	0	9	31	3	797.17265		805.609	.1313E-02	.966
-1	0	9	31	1	797.18844		805.603	.6559E-03	.965
-1	0	9	30	3	797.24743	75	765.529	.1543E-02	.969
-1	0	9	30	1	797.26250		765.523	.7708E-03	.968
-1	0	9	29	3	797.31968	69	726.733	.1798E-02	.971
-1	0	9	29	1	797.33402	-91	726.728	.8979E-03	.970
-1	0	9	28	3	797.38942	76	689.225	.2077E-02	.973
-1	0	9	28	1	797.40304	-98	689.219	.1037E-02	.972

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	0	9	27	3	797.45667	32	653.003	.2379E-02	.975
-1	0	9	27	1	797.46955	-84	652.998	.1189E-02	.974
-1	0	9	26	3	797.52142	49	618.069	.2703E-02	.977
-1	0	9	26	1	797.53357	-33	618.064	.1350E-02	.976
-1	0	9	25	3	797.58368	553*	584.424	.3044E-02	.979
1	-1	0	18	2	797.58872		221.701	.3413E-02	1.000
1	-1	0	18	0	797.59031	-3	221.696	.6826E-02	1.000
-1	0	9	25	1	797.59511		584.418	.1520E-02	.978
-1	0	9	24	3	797.64348	41	552.067	.3396E-02	.981
-1	0	9	24	1	797.65419	-32	552.062	.1696E-02	.980
-1	0	9	23	3	797.70080	37	521.000	.3754E-02	.983
-1	0	9	23	1	797.71081	4	520.995	.1875E-02	.982
-1	0	9	22	3	797.75568	26	491.224	.4104E-02	.984
-1	0	9	22	1	797.76498	6	491.218	.2052E-02	.984
-1	0	9	21	3	797.80810	44	462.737	.4444E-02	.986
-1	0	9	21	1	797.81671	-28	462.732	.2220E-02	.985
-1	0	9	20	3	797.85809	57	435.543	.4760E-02	.988
1	-1	2	22	2	797.86249	-383*	335.997	.3616E-02	.910
-1	0	9	20	1	797.86602		435.537	.2377E-02	.987
-1	-1	1	16	3	797.86775		178.362	.2254E-02	1.069
1	-1	1	20	3	797.86775		274.250	.1147E-02	.863
1	-1	3	24	3	797.86835	217*	406.944	.2632E-02	.924
1	-1	2	22	0	797.86932		335.992	.9021E-03	.908
-1	-1	1	16	1	797.87121	-69	178.357	.9017E-02	1.069
1	-1	1	20	1	797.87237	-184*	274.245	.4583E-02	.862
1	-1	3	24	1	797.87339		406.938	.1315E-02	.923
1	-1	4	26	2	797.88710	89	487.075	.1818E-02	.929
1	-1	4	26	0	797.89455		487.069	.4540E-03	.928
-1	-1	2	14	2	797.90271	154	144.230	.1027E-01	1.022
-1	0	9	19	3	797.90564	-140	409.640	.5031E-02	.989
-1	-1	2	14	0	797.90718		144.225	.2567E-02	1.022
1	-1	5	28	3	797.91266		576.390	.2996E-03	.931
-1	0	9	19	1	797.91291		409.634	.2515E-02	.989
1	-1	5	28	1	797.91817		576.385	.1198E-02	.931
-1	-1	3	12	3	797.94059	-36	119.316	.1167E-01	1.008
-1	-1	3	12	1	797.94344		119.311	.5837E-02	1.008
1	-1	6	30	2	797.95039		674.875	.3777E-03	.932
-1	0	9	18	3	797.95077	53	385.029	.5252E-02	.991

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	0	9	18	1	797.95739	90	385.023	.2624E-02	.990
1	-1	6	30	0	797.95840	-11	674.869	.7546E-03	.931
-1	-1	4	10	2	797.98808	196*	103.615	.1303E-01	1.002
-1	-1	4	10	0	797.99131		103.610	.3257E-02	1.002
-1	0	9	17	3	797.99348		361.710	.5398E-02	.992
1	-1	7	32	3	797.99431		782.526	.1137E-03	.931
-1	0	9	17	1	797.99948		361.705	.2699E-02	.992
1	-1	7	32	1	798.00024		782.520	.4547E-03	.931
-1	0	9	16	3	798.03378	-77	339.685	.5454E-02	.993
-1	0	9	16	1	798.03917		339.680	.2727E-02	.993
-1	-1	5	8	3	798.04290		97.137	.3596E-02	1.000
-1	-1	5	8	1	798.04491	-50	97.131	.1438E-01	1.000
1	-1	8	34	2	798.05042		899.325	.2618E-03	.930
1	-1	8	34	0	798.05890		899.320	.6538E-04	.929
-1	0	9	15	3	798.07168	147	318.954	.5402E-02	.994
-1	0	9	15	1	798.07649		318.948	.2701E-02	.994
-1	0	9	14	3	798.10717	175	299.516	.5226E-02	.996
-1	-1	6	6	2	798.10786		99.873	.8007E-02	1.000
-1	-1	6	6	0	798.10940	56	99.868	.1601E-01	1.000
-1	0	9	14	1	798.11143		299.510	.2611E-02	.995
-1	0	9	13	3	798.14028	-8	281.372	.4894E-02	.997
-1	0	9	13	1	798.14400		281.367	.2445E-02	.996
-1	0	9	12	3	798.17100	-12	264.523	.4388E-02	.998
-1	0	9	12	1	798.17422		264.518	.2192E-02	.997
-1	0	9	11	3	798.19933	-15	248.969	.3676E-02	.998
-1	0	9	11	1	798.20209		248.964	.1838E-02	.998
-1	0	9	10	3	798.22529	-115	234.710	.2737E-02	.999
-1	0	9	10	1	798.22761		234.705	.1369E-02	.999
-1	0	9	9	3	798.24887	-14	221.747	.1529E-02	1.000
-1	0	9	9	1	798.25079		221.742	.7644E-03	1.000
-1	1	20	20	0	798.69232		1077.474	.1507E-06	1.020
-1	1	20	20	2	798.71096		1077.479	.6087E-06	1.030
1	-1	0	17	2	798.95451		198.375	.3606E-02	1.000
1	-1	0	17	0	798.95609	-10	198.370	.7211E-02	1.000
-1	-1	1	15	3	799.20123		157.624	.2332E-02	1.060
1	-1	1	19	3	799.20420		248.339	.1247E-02	.876
-1	-1	1	15	1	799.20448	40	157.618	.9327E-02	1.060
1	-1	2	21	2	799.20450	38	307.503	.3955E-02	.917

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	-1	1	19	1	799.20849	-361*	248.334	.4980E-02	.875
1	-1	2	21	0	799.21085		307.497	.9878E-03	.916
1	-1	3	23	3	799.21508	172	375.868	.2913E-02	.929
1	-1	3	23	1	799.21983		375.862	.1457E-02	.929
-1	-1	2	13	2	799.23033	5	126.081	.1055E-01	1.018
-1	-1	2	13	0	799.23440		126.076	.2637E-02	1.018
1	-1	4	25	2	799.23812		453.420	.2040E-02	.934
1	-1	4	25	0	799.24512		453.415	.5095E-03	.933
-1	-1	3	11	3	799.26334	-14	103.758	.1190E-01	1.006
-1	-1	3	11	1	799.26597		103.752	.5952E-02	1.006
1	-1	5	27	3	799.26796		540.161	.3407E-03	.935
1	-1	5	27	1	799.27318		540.155	.1363E-02	.935
-1	-1	4	9	2	799.30606	38	90.649	.1324E-01	1.002
-1	-1	4	9	0	799.30891		90.643	.3310E-02	1.002
1	-1	6	29	2	799.30973		636.073	.4351E-03	.935
1	-1	6	29	0	799.31731	-30	636.067	.8702E-03	.935
-1	0	8	35	2	799.34285		944.544	.7622E-03	.950
-1	-1	5	7	3	799.35623		86.762	.3664E-02	1.000
1	-1	7	31	3	799.35774		741.155	.1329E-03	.935
-1	-1	5	7	1	799.35806	-10	86.757	.1466E-01	1.000
1	-1	7	31	1	799.36340		741.149	.5312E-03	.934
-1	0	8	35	0	799.37550		944.538	.1899E-03	.947
1	-1	8	33	2	799.41773		855.389	.3102E-03	.933
1	-1	8	33	0	799.42581		855.384	.7755E-04	.933
-1	0	8	34	2	799.42857	-51	899.325	.9245E-03	.953
-1	0	8	34	0	799.46007		899.320	.2304E-03	.950
1	-1	9	35	3	799.48359		978.773	.1733E-03	.932
1	-1	9	35	1	799.48963		978.767	.8654E-04	.931
-1	0	8	33	2	799.51169	-25	855.389	.1113E-02	.956
-1	0	8	33	0	799.54202		855.384	.2774E-03	.953
-1	0	8	32	2	799.59222		812.737	.1330E-02	.959
-1	0	8	32	0	799.62135		812.731	.3315E-03	.956
-1	0	8	31	2	799.67016	4	771.368	.1576E-02	.961
-1	0	8	31	0	799.69807	70	771.363	.3931E-03	.959
-1	0	8	30	2	799.74553	-1	731.285	.1854E-02	.964
-1	1	19	19	3	799.76202		973.230	.2657E-06	1.028
-1	0	8	30	0	799.77221	-17	731.279	.4621E-03	.961
-1	1	19	19	1	799.77377		973.224	.1065E-05	1.030

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	0	8	29	2	799.81834	5	692.487	.2165E-02	.967
-1	0	8	29	0	799.84378	184*	692.481	.5395E-03	.964
-1	0	8	28	2	799.88861	-10	654.976	.2505E-02	.969
-1	0	8	28	0	799.91278	-106	654.970	.6250E-03	.967
-1	1	20	21	0	799.92300		1104.633	.3782E-06	1.019
-1	1	20	21	2	799.95323		1104.639	.1531E-05	1.031
-1	0	8	27	2	799.95634	62	618.752	.2875E-02	.971
-1	0	8	27	0	799.97925	15	618.746	.7173E-03	.969
-1	0	8	26	2	800.02155	24	583.816	.3276E-02	.974
-1	0	8	26	0	800.04318		583.810	.8165E-03	.971
-1	0	8	25	2	800.08424	22	550.168	.3697E-02	.976
-1	0	8	25	0	800.10460	-1	550.162	.9224E-03	.974
-1	0	8	24	2	800.14443	30	517.809	.4136E-02	.978
-1	0	8	24	0	800.16352	-95	517.803	.1032E-02	.976
-1	0	8	23	2	800.20214	15	486.740	.4585E-02	.980
-1	0	8	23	0	800.21995	2	486.734	.1144E-02	.978
-1	0	8	22	2	800.25736	9	456.961	.5035E-02	.982
-1	0	8	22	0	800.27391	-80	456.956	.1256E-02	.980
-1	0	8	21	2	800.31010	-62	428.473	.5474E-02	.984
1	-1	0	16	0	800.31805	-78	176.338	.7541E-02	1.000
-1	0	8	21	0	800.32541		428.468	.1366E-02	.982
-1	0	8	20	2	800.36039	11	401.276	.5884E-02	.985
-1	0	8	20	0	800.37446	-12	401.271	.1470E-02	.984
-1	0	8	19	2	800.40821	20	375.372	.6261E-02	.987
-1	0	8	19	0	800.42108	25	375.366	.1564E-02	.986
-1	0	8	18	2	800.45360	10	350.759	.6583E-02	.989
1	-1	0	16	2	800.45610		176.343	.3771E-02	1.000
-1	0	8	18	0	800.46528	22	350.754	.1644E-02	.988
-1	0	8	17	2	800.49654	4	327.439	.6823E-02	.990
-1	0	8	17	0	800.50707	44	327.434	.1704E-02	.989
-1	-1	1	14	3	800.53223		138.180	.2387E-02	1.051
-1	-1	1	14	1	800.53527	48	138.174	.9558E-02	1.052
-1	0	8	16	2	800.53706	-131	305.413	.6976E-02	.992
1	-1	1	18	3	800.53917		223.720	.1339E-02	.888
1	-1	1	18	1	800.54316	96	223.715	.5351E-02	.887
1	-1	2	20	2	800.54485	-74	280.299	.4283E-02	.924
-1	0	8	16	0	800.54646		305.407	.1742E-02	.991
1	-1	2	20	0	800.55074		280.294	.1070E-02	.923

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	-1	2	12	2	800.55566	162	109.227	.1074E-01	1.015
-1	-1	2	12	0	800.55936		109.222	.2684E-02	1.015
1	-1	3	22	3	800.56011	-283*	346.082	.3196E-02	.935
1	-1	3	22	1	800.56457		346.077	.1596E-02	.934
-1	0	8	15	2	800.57515	-9	284.679	.7007E-02	.993
-1	0	8	15	0	800.58348		284.674	.1750E-02	.992
-1	-1	3	10	3	800.58384	9	89.495	.1204E-01	1.005
-1	-1	3	10	1	800.58627		89.489	.6020E-02	1.005
1	-1	4	24	2	800.58745	-272*	421.055	.2266E-02	.938
1	-1	4	24	0	800.59401		421.050	.5658E-03	.937
-1	0	8	14	2	800.61083	-34	265.240	.6901E-02	.994
-1	0	8	14	0	800.61811		265.235	.1725E-02	.994
1	-1	5	26	3	800.62158		505.219	.3837E-03	.939
-1	-1	4	8	2	800.62179	40	78.978	.1335E-01	1.001
-1	-1	4	8	0	800.62429		78.972	.3338E-02	1.001
1	-1	5	26	1	800.62653	-434*	505.213	.1535E-02	.939
-1	0	8	13	2	800.64410	7	247.096	.6633E-02	.995
-1	0	8	13	0	800.65039		247.090	.1658E-02	.995
-1	-1	5	6	3	800.66730		77.684	.3730E-02	1.000
1	-1	6	28	2	800.66742		598.557	.4972E-03	.939
-1	-1	5	6	1	800.66897	-36	77.679	.1492E-01	1.000
1	-1	6	28	0	800.67458	145	598.551	.9934E-03	.938
-1	0	8	12	2	800.67497	106	230.245	.6180E-02	.996
-1	0	8	12	0	800.68032		230.240	.1545E-02	.996
-1	0	8	11	2	800.70343	10	214.690	.5515E-02	.997
-1	0	8	11	0	800.70790		214.685	.1379E-02	.997
1	-1	7	30	3	800.71955		701.069	.1539E-03	.938
1	-1	7	30	1	800.72494		701.063	.6158E-03	.938
-1	0	8	10	2	800.72951	7	200.430	.4607E-02	.998
-1	0	8	10	0	800.73315		200.425	.1152E-02	.998
-1	0	8	9	2	800.75320	49	187.466	.3420E-02	.999
-1	0	8	9	0	800.75608		187.461	.8550E-03	.999
-1	0	8	8	2	800.77451	-200*	175.797	.1907E-02	1.000
-1	0	8	8	0	800.77669		175.792	.4768E-03	1.000
1	-1	8	32	2	800.78346		812.737	.3644E-03	.936
1	-1	8	32	0	800.79114		812.731	.9109E-04	.936
-1	1	18	18	0	800.79332		874.247	.1761E-05	.997
-1	1	18	18	2	800.83231		874.252	.9071E-06	1.027

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	-1	9	34	3	800.85330		933.558	.2064E-03	.935
1	-1	9	34	1	800.85909		933.552	.1031E-03	.934
-1	1	19	20	3	801.00625		999.104	.6708E-06	1.029
-1	1	19	20	1	801.02284		999.098	.2688E-05	1.031
-1	1	20	22	0	801.14977		1133.083	.6300E-06	1.018
-1	1	20	22	2	801.19274		1133.088	.2555E-05	1.032
1	-1	0	15	2	801.67457		155.605	.3901E-02	1.000
1	-1	0	15	0	801.67614	34	155.599	.7801E-02	1.000
-1	0	7	35	3	801.84829		914.341	.2224E-03	.943
-1	-1	1	13	3	801.86076		120.030	.2420E-02	1.043
-1	-1	1	13	1	801.86361	-77	120.025	.9689E-02	1.044
-1	0	7	35	1	801.86395		914.335	.8888E-03	.942
1	-1	1	17	3	801.87259		200.394	.1423E-02	.900
1	-1	1	17	1	801.87629	253*	200.389	.5687E-02	.899
-1	-1	2	11	2	801.87871	11	93.668	.1082E-01	1.012
-1	-1	2	11	0	801.88206		93.663	.2705E-02	1.012
1	-1	2	19	2	801.88349		254.388	.4590E-02	.931
1	-1	2	19	0	801.88893		254.383	.1146E-02	.930
-1	-1	3	9	3	801.90208	9	76.527	.1206E-01	1.003
1	-1	3	21	3	801.90339	-48	317.588	.3467E-02	.940
-1	-1	3	9	1	801.90432		76.522	.6028E-02	1.003
1	-1	3	21	1	801.90758		317.582	.1732E-02	.939
-1	1	17	17	3	801.91647		780.560	.7559E-06	1.025
-1	1	17	17	1	801.92330		780.555	.3029E-05	1.027
1	-1	4	23	2	801.93503	55	389.980	.2494E-02	.943
-1	0	7	34	3	801.93513		869.120	.2700E-03	.946
-1	-1	4	7	2	801.93526	33	68.603	.1339E-01	1.000
-1	-1	4	7	0	801.93746		68.598	.3347E-02	1.000
1	-1	4	23	0	801.94117		389.975	.6228E-03	.942
-1	0	7	34	1	801.95022	-162	869.114	.1079E-02	.945
1	-1	5	25	3	801.97347		471.566	.4281E-03	.943
-1	-1	5	5	3	801.97608		69.903	.3810E-02	1.000
-1	-1	5	5	1	801.97762	-28	69.898	.1524E-01	1.000
1	-1	5	25	1	801.97816	-82	471.560	.1713E-02	.943
-1	1	18	19	0	802.01407		898.834	.4405E-05	.985
-1	0	7	33	3	802.01932		825.181	.3253E-03	.949
1	-1	6	27	2	802.02342		562.329	.5623E-03	.942
1	-1	6	27	0	802.03017	139	562.323	.1125E-02	.942
-1	0	7	33	1	802.03383	-228*	825.175	.1300E-02	.948
-1	1	18	19	2	802.07943		898.839	.2299E-05	1.028
1	-1	7	29	3	802.07969		662.269	.1766E-03	.941
1	-1	7	29	1	802.08482		662.263	.7065E-03	.941
-1	0	7	32	3	802.10086	8	782.526	.3891E-03	.952
-1	0	7	32	1	802.11479	-116	782.520	.1555E-02	.951
1	-1	8	31	2	802.14756		771.368	.4246E-03	.940
1	-1	8	31	0	802.15485		771.363	.1060E-03	.939
-1	0	7	31	3	802.17977	166	741.155	.4623E-03	.956
-1	0	7	31	1	802.19312	-98	741.149	.1846E-02	.954
1	-1	9	33	3	802.22142		889.625	.2438E-03	.938
1	-1	9	33	1	802.22695		889.619	.1218E-03	.937
-1	1	19	21	3	802.24774		1026.268	.1126E-05	1.031
-1	0	7	30	3	802.25607	39	701.069	.5441E-03	.958
-1	0	7	30	1	802.26883	-74	701.063	.2174E-02	.957
-1	1	19	21	1	802.26898		1026.262	.4507E-05	1.032
1	-1	10	35	2	802.30698		1017.019	.1338E-03	.936
1	-1	10	35	0	802.31474		1017.013	.3342E-04	.935
-1	0	7	29	3	802.32977	-18	662.269	.6360E-03	.961
-1	0	7	29	1	802.34194	-70	662.263	.2541E-02	.960
-1	1	20	23	0	802.37241		1162.821	.8708E-06	1.017
-1	0	7	28	3	802.40088	49	624.755	.7377E-03	.964
-1	0	7	28	1	802.41246	-56	624.750	.2948E-02	.963
-1	1	20	23	2	802.42947		1162.827	.3542E-05	1.034
-1	0	7	27	3	802.46941	64	588.529	.8488E-03	.967
-1	0	7	27	1	802.48040	-41	588.523	.3392E-02	.966
-1	0	7	26	3	802.53538	-81	553.591	.9677E-03	.969
-1	0	7	26	1	802.54579	-28	553.585	.3867E-02	.968
-1	0	7	25	3	802.59880	11	519.941	.1095E-02	.972
-1	0	7	25	1	802.60863	-25	519.935	.4377E-02	.971
-1	0	7	24	3	802.65952	-10	487.580	.1227E-02	.973
-1	0	7	24	1	802.66893	-30	487.575	.4907E-02	.973
-1	0	7	23	3	802.71804	-22	456.509	.1365E-02	.976
-1	0	7	23	1	802.72672	-19	456.504	.5458E-02	.976
-1	0	7	22	3	802.77388		426.729	.1504E-02	.979
-1	0	7	22	1	802.78200	-38	426.723	.6010E-02	.978
-1	0	7	21	3	802.82721		398.239	.1641E-02	.981
-1	0	7	21	1	802.83478	-7	398.233	.6557E-02	.980

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	0	7	20	3	802.87805		371.040	.1772E-02	.983
-1	0	7	20	1	802.88508	-19	371.035	.7082E-02	.982
-1	0	7	19	3	802.92640		345.134	.1894E-02	.985
-1	0	7	19	1	802.93290	-2	345.129	.7570E-02	.984
-1	0	7	18	3	802.97227		320.520	.2001E-02	.986
-1	0	7	18	1	802.97827	-11	320.514	.8003E-02	.986
-1	0	7	17	3	803.01568		297.199	.2090E-02	.988
-1	1	16	16	2	803.01929		692.152	.4930E-05	1.024
-1	0	7	17	1	803.02118	-59	297.193	.8359E-02	.988
1	-1	0	14	2	803.02879		136.161	.3989E-02	1.000
1	-1	0	14	0	803.03036	48	136.155	.7978E-02	1.000
-1	0	7	16	3	803.05662		275.171	.2155E-02	.990
-1	0	7	16	1	803.06165	-35	275.165	.8610E-02	.989
-1	1	16	16	0	803.06612		692.146	.1223E-05	1.016
-1	0	7	15	3	803.09512		254.436	.2187E-02	.991
-1	0	7	15	1	803.09969	-42	254.431	.8748E-02	.991
-1	0	7	14	3	803.13117		234.996	.2186E-02	.993
-1	0	7	14	1	803.13531	-40	234.991	.8734E-02	.992
-1	0	7	13	3	803.16479		216.850	.2140E-02	.994
-1	1	17	18	3	803.16572		803.859	.1924E-05	1.027
-1	0	7	13	1	803.16851	-51	216.845	.8559E-02	.994
-1	1	17	18	1	803.17519		803.854	.7705E-05	1.028
-1	-1	1	12	3	803.18686		103.176	.2427E-02	1.036
-1	-1	1	12	1	803.18951	-90	103.171	.9709E-02	1.036
-1	0	7	12	3	803.19597		199.999	.2045E-02	.995
-1	0	7	12	1	803.19930	24	199.994	.8182E-02	.995
-1	-1	2	10	2	803.19946	8	79.405	.1078E-01	1.009
-1	-1	2	10	0	803.20248		79.399	.2695E-02	1.009
1	-1	1	16	3	803.20437		178.362	.1494E-02	.911
1	-1	1	16	1	803.20780	-16	178.357	.5969E-02	.910
-1	-1	3	8	3	803.21804	10	64.856	.1197E-01	1.002
-1	-1	3	8	1	803.22011		64.851	.5986E-02	1.002
1	-1	2	18	2	803.22035	-151	229.770	.4865E-02	.938
-1	0	7	11	3	803.22474		184.443	.1896E-02	.996
1	-1	2	18	0	803.22537		229.764	.1215E-02	.937
-1	1	18	20	0	803.22646		924.711	.7294E-05	.970
-1	0	7	11	1	803.22770	35	184.438	.7584E-02	.996
1	-1	3	20	3	803.24488	209*	290.385	.3721E-02	.945

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	-1	4	6	2	803.24645	184*	59.525	.1338E-01	1.000
-1	-1	4	6	0	803.24839		59.520	.3345E-02	1.000
1	-1	3	20	1	803.24881		290.380	.1859E-02	.944
-1	0	7	10	3	803.25108		170.182	.1684E-02	.997
-1	0	7	10	1	803.25370		170.177	.6737E-02	.997
-1	0	7	9	3	803.27502		157.217	.1402E-02	.998
-1	0	7	9	1	803.27732	46	157.212	.5608E-02	.998
1	-1	4	22	2	803.28084	-305*	360.196	.2714E-02	.947
1	-1	4	22	0	803.28657		360.190	.6777E-03	.946
-1	0	7	8	3	803.29654		145.548	.1038E-02	.999
-1	0	7	8	1	803.29856	-42	145.542	.4153E-02	.999
-1	0	7	7	3	803.31566		135.175	.5788E-03	1.000
-1	0	7	7	1	803.31743	-213*	135.169	.2315E-02	1.000
1	-1	5	24	3	803.32360		439.202	.4729E-03	.947
-1	1	18	20	2	803.32382		924.717	.3873E-05	1.030
1	-1	5	24	1	803.32803	-40	439.196	.1892E-02	.947
1	-1	6	26	2	803.37767		527.389	.6303E-03	.946
1	-1	6	26	0	803.38403	101	527.383	.1259E-02	.945
1	-1	7	28	3	803.43813		624.755	.2010E-03	.945
1	-1	7	28	1	803.44301	-242*	624.750	.8030E-03	.944
-1	1	19	22	3	803.48646		1054.722	.1566E-05	1.032
1	-1	8	30	2	803.51000		731.285	.4897E-03	.943
-1	1	19	22	1	803.51216		1054.716	.6269E-05	1.033
1	-1	8	30	0	803.51691		731.279	.1223E-03	.942
1	-1	9	32	3	803.58791		846.975	.2853E-03	.941
-1	1	20	24	0	803.59069		1193.848	.1077E-05	1.015
1	-1	9	32	1	803.59319		846.969	.1425E-03	.940
-1	1	20	24	2	803.66339		1193.854	.4394E-05	1.035
1	-1	10	34	2	803.67734		971.806	.1587E-03	.938
1	-1	10	34	0	803.68473		971.801	.3968E-04	.938
-1	1	15	15	3	804.13643		609.039	.7852E-05	1.022
-1	1	15	15	1	804.14106		609.034	.3930E-05	1.023
-1	1	16	17	2	804.27133		714.162	.1258E-04	1.025
-1	1	16	17	0	804.33505		714.156	.3099E-05	1.010
-1	0	6	35	2	804.37783		888.158	.5067E-03	.933
1	-1	0	13	2	804.37910		118.011	.4030E-02	1.000
1	-1	0	13	0	804.38066	25	118.006	.8060E-02	1.000
-1	0	6	35	0	804.40354		888.152	.1010E-02	.930

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	1	17	19	3	804.41226		828.449	.3251E-05	1.028
-1	1	17	19	1	804.42436		828.444	.1302E-04	1.029
-1	1	18	21	0	804.42871		951.880	.9949E-05	.948
-1	0	6	34	2	804.46569		842.934	.6154E-03	.936
-1	0	6	34	0	804.49049		842.928	.1228E-02	.934
-1	-1	1	11	3	804.51052		87.617	.2407E-02	1.030
-1	-1	1	11	1	804.51300	244*	87.612	.9629E-02	1.030
-1	-1	2	9	2	804.51790	-244*	66.437	.1063E-01	1.007
-1	-1	2	9	0	804.52063		66.432	.2658E-02	1.007
-1	-1	3	7	3	804.53171	87	54.481	.1178E-01	1.001
-1	-1	3	7	1	804.53364		54.476	.5892E-02	1.001
1	-1	1	15	3	804.53443		157.624	.1547E-02	.921
1	-1	1	15	1	804.53762	-439*	157.618	.6190E-02	.921
-1	0	6	33	2	804.55083		798.993	.7428E-03	.940
-1	-1	4	5	2	804.55534	12	51.743	.1336E-01	1.000
1	-1	2	17	2	804.55538	8	206.444	.5092E-02	.944
-1	-1	4	5	0	804.55705		51.738	.3341E-02	1.000
1	-1	2	17	0	804.56001		206.439	.1272E-02	.943
-1	1	18	21	2	804.56545		951.885	.5411E-05	1.031
-1	0	6	33	0	804.57470		798.987	.1483E-02	.938
1	-1	3	19	3	804.58451	-149	264.475	.3949E-02	.950
1	-1	3	19	1	804.58820		264.469	.1973E-02	.949
1	-1	4	21	2	804.62481	0	331.702	.2921E-02	.951
1	-1	4	21	0	804.63015		331.697	.7296E-03	.950
-1	0	6	32	2	804.63327	361*	756.336	.8900E-03	.944
-1	0	6	32	0	804.65620	56	756.330	.1774E-02	.941
1	-1	5	23	3	804.67193		408.128	.5169E-03	.951
1	-1	5	23	1	804.67611	-51	408.122	.2065E-02	.950
-1	0	6	31	2	804.71302	-45	714.963	.1057E-02	.947
-1	1	19	23	3	804.72238		1084.465	.1953E-05	1.034
1	-1	6	25	2	804.73016		493.737	.6988E-03	.949
-1	0	6	31	0	804.73500	45	714.957	.2110E-02	.945
1	-1	6	25	0	804.73614	-68	493.732	.1398E-02	.949
-1	1	19	23	1	804.75235		1084.459	.7813E-05	1.034
-1	0	6	30	2	804.79010	56	674.875	.1248E-02	.951
1	-1	7	27	3	804.79482		588.529	.2262E-03	.948
1	-1	7	27	1	804.79946	18	588.523	.9037E-03	.947
-1	1	20	25	0	804.80432		1226.163	.1237E-05	1.012

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	0	6	30	0	804.81113	0	674.869	.2491E-02	.949
-1	0	6	29	2	804.86453	1	636.073	.1460E-02	.954
1	-1	8	29	2	804.87073		692.487	.5594E-03	.946
1	-1	8	29	0	804.87726		692.481	.1397E-03	.945
-1	0	6	29	0	804.88459	-6	636.067	.2915E-02	.952
-1	1	20	25	2	804.89445		1226.169	.5069E-05	1.037
-1	0	6	28	2	804.93632	-39	598.557	.1696E-02	.957
1	-1	9	31	3	804.95272		805.609	.3308E-03	.944
-1	0	6	28	0	804.95541	6	598.551	.3384E-02	.955
1	-1	9	31	1	804.95777		805.603	.1652E-03	.943
-1	0	6	27	2	805.00549	-1	562.329	.1953E-02	.960
-1	0	6	27	0	805.02361	0	562.323	.3899E-02	.958
1	-1	10	33	2	805.04608		927.877	.1867E-03	.941
1	-1	10	33	0	805.05311		927.871	.4669E-04	.941
-1	0	6	26	2	805.07205	35	527.389	.2232E-02	.963
-1	0	6	26	0	805.08920	11	527.383	.4456E-02	.961
-1	0	6	25	2	805.13602	-2	493.737	.2531E-02	.966
1	-1	11	35	3	805.14520		1059.286	.2522E-04	.939
1	-1	11	35	1	805.15061		1059.280	.1009E-03	.939
-1	0	6	25	0	805.15219	0	493.732	.5051E-02	.964
-1	0	6	24	2	805.19741	-8	461.375	.2845E-02	.969
-1	0	6	24	0	805.21262	17	461.369	.5678E-02	.967
-1	0	6	23	2	805.25624	19	430.302	.3171E-02	.972
-1	0	6	23	0	805.27048	7	430.297	.6329E-02	.970
-1	1	14	14	2	805.27184		531.221	.1225E-04	1.021
-1	1	14	14	0	805.28358		531.215	.3067E-05	1.023
-1	0	6	22	2	805.31251	-33	400.520	.3500E-02	.974
-1	0	6	22	0	805.32581	22	400.514	.6993E-02	.973
-1	0	6	21	2	805.36624	29	372.029	.3832E-02	.977
-1	0	6	21	0	805.37860	26	372.023	.7648E-02	.975
-1	1	15	16	3	805.39073		629.759	.2011E-04	1.024
-1	1	15	16	1	805.39695		629.754	.1007E-04	1.025
-1	0	6	20	2	805.41744	23	344.829	.4152E-02	.979
-1	0	6	20	0	805.42889	35	344.824	.8295E-02	.978
-1	0	6	19	2	805.46613	-2	318.921	.4454E-02	.981
-1	0	6	19	0	805.47668	21	318.916	.8900E-02	.980
-1	0	6	18	2	805.51232	-12	294.306	.4729E-02	.983
-1	1	16	18	2	805.52067		737.463	.2135E-04	1.027

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	0	6	18	0	805.52199	33	294.300	.9449E-02	.982
-1	0	6	17	2	805.55601	-45	270.983	.4966E-02	.985
-1	0	6	17	0	805.56482	28	270.978	.9922E-02	.984
-1	0	6	16	2	805.59721	-1	248.954	.5153E-02	.987
-1	1	16	18	0	805.59857		737.458	.5234E-05	1.007
-1	0	6	16	0	805.60520	41	248.949	.1030E-01	.986
-1	1	18	22	0	805.61840		980.338	.1205E-04	.918
-1	0	6	15	2	805.63594	-56	228.219	.5278E-02	.989
-1	0	6	15	0	805.64314	37	228.213	.1055E-01	.988
-1	1	17	20	3	805.65605		854.331	.4560E-05	1.029
-1	1	17	20	1	805.67077		854.325	.1826E-04	1.030
-1	0	6	14	2	805.67221	-63	208.778	.5328E-02	.991
-1	0	6	14	0	805.67865	71	208.772	.1065E-01	.990
-1	0	6	13	2	805.70601	-100	190.631	.5286E-02	.992
-1	0	6	13	0	805.71173	28	190.625	.1057E-01	.992
1	-1	0	12	2	805.72547		101.157	.4018E-02	1.000
1	-1	0	12	0	805.72703	15	101.151	.8035E-02	1.000
-1	0	6	12	2	805.73737	-52	173.779	.5149E-02	.994
-1	0	6	12	0	805.74241	-40	173.773	.1029E-01	.993
-1	0	6	11	2	805.76629		158.222	.4894E-02	.995
-1	0	6	11	0	805.77068	-110	158.216	.9788E-02	.995
-1	0	6	10	2	805.79278		143.960	.4513E-02	.996
-1	0	6	10	0	805.79657	153	143.955	.9026E-02	.996
-1	1	18	22	2	805.80430		980.343	.6781E-05	1.033
-1	0	6	9	2	805.81683		130.995	.3991E-02	.997
-1	0	6	9	0	805.82007	162	130.989	.7982E-02	.997
-1	-1	1	10	3	805.83178		73.353	.2356E-02	1.024
-1	-1	2	8	2	805.83404	-10	54.766	.1036E-01	1.005
-1	-1	1	10	1	805.83410	-16	73.348	.9423E-02	1.024
-1	-1	2	8	0	805.83650		54.761	.2589E-02	1.005
-1	0	6	8	2	805.83847		119.325	.3311E-02	.998
-1	0	6	8	0	805.84120	333*	119.319	.6622E-02	.998
-1	-1	3	6	3	805.84308	-96	45.403	.1152E-01	1.001
-1	-1	3	6	1	805.84487		45.398	.5758E-02	1.001
-1	0	6	7	2	805.85768		108.951	.2448E-02	.999
-1	0	6	7	0	805.85997		108.945	.4896E-02	.999
-1	-1	4	4	2	805.86191	55	45.258	.1343E-01	1.000
1	-1	1	14	3	805.86270		138.180	.1582E-02	.931

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	-1	4	4	0	805.86345		45.253	.3358E-02	1.000
1	-1	1	14	1	805.86566	-320*	138.174	.6322E-02	.930
-1	0	6	6	2	805.87449		99.873	.1366E-02	1.000
-1	0	6	6	0	805.87637		99.868	.2732E-02	1.000
1	-1	2	16	2	805.88853	17	184.412	.5263E-02	.950
1	-1	2	16	0	805.89279		184.407	.1314E-02	.949
1	-1	3	18	3	805.92226	-32	239.857	.4137E-02	.954
1	-1	3	18	1	805.92572		239.851	.2069E-02	.954
-1	1	19	24	3	805.95546		1115.497	.2262E-05	1.035
1	-1	4	20	2	805.96691	-4	304.500	.3109E-02	.955
1	-1	4	20	0	805.97188		304.495	.7765E-03	.954
-1	1	19	24	1	805.98949		1115.491	.9048E-05	1.035
-1	1	20	26	0	806.01292		1259.765	.1345E-05	1.009
1	-1	5	22	3	806.01840		378.344	.5582E-03	.954
1	-1	5	22	1	806.02235	-58	378.339	.2233E-02	.954
1	-1	6	24	2	806.08083		461.375	.7673E-03	.953
1	-1	6	24	0	806.08644	71	461.369	.1533E-02	.952
-1	1	20	26	2	806.12263		1259.771	.5537E-05	1.038
1	-1	7	26	3	806.14974		553.591	.2519E-03	.951
1	-1	7	26	1	806.15413	0	553.585	.1007E-02	.950
1	-1	8	28	2	806.22971		654.976	.6328E-03	.949
1	-1	8	28	0	806.23589		654.970	.1580E-03	.948
1	-1	9	30	3	806.31584		765.529	.3794E-03	.946
1	-1	9	30	1	806.32064		765.523	.1897E-03	.946
1	-1	10	32	2	806.41314		885.230	.2177E-03	.944
1	-1	10	32	0	806.41982		885.224	.5436E-04	.943
-1	1	13	13	3	806.42187		458.707	.4673E-05	1.020
-1	1	13	13	1	806.42532		458.702	.1869E-04	1.020
1	-1	11	34	3	806.51627		1014.078	.2984E-04	.942
1	-1	11	34	1	806.52145		1014.072	.1192E-03	.941
-1	1	14	15	2	806.52886		550.649	.3141E-04	1.022
-1	1	14	15	0	806.54568		550.644	.7868E-05	1.024
-1	1	15	17	3	806.64233		651.771	.3421E-04	1.025
-1	1	15	17	1	806.65018		651.766	.1712E-04	1.026
-1	1	16	19	2	806.76728		762.057	.3006E-04	1.028
-1	1	18	23	0	806.79221		1010.085	.1336E-04	.876
-1	1	16	19	0	806.85720		762.051	.7355E-05	1.006
-1	1	17	21	3	806.89706		881.503	.5739E-05	1.031

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	1	17	21	1	806.91438		881.497	.2298E-04	1.032
-1	0	5	35	3	806.91758		866.004	.2812E-03	.919
-1	0	5	35	1	806.93079	-114	865.998	.1124E-02	.918
-1	0	5	34	3	807.00691		820.778	.3421E-03	.923
-1	0	5	34	1	807.01965	30	820.773	.1367E-02	.922
-1	1	18	23	2	807.04034		1010.091	.7888E-05	1.034
1	-1	0	11	2	807.06788		85.598	.3947E-02	1.000
1	-1	0	11	0	807.06944	33	85.592	.7894E-02	1.000
-1	0	5	33	3	807.09343		776.835	.4136E-03	.928
-1	0	5	33	1	807.10571	-140	776.830	.1653E-02	.927
-1	-1	2	7	2	807.14785	308*	44.391	.9956E-02	1.003
-1	-1	2	7	0	807.15008		44.385	.2489E-02	1.003
-1	-1	1	9	3	807.15064		60.386	.2272E-02	1.018
-1	-1	3	5	3	807.15211	-175*	37.621	.1117E-01	1.000
-1	-1	1	9	1	807.15280	-187*	60.381	.9097E-02	1.019
-1	-1	3	5	1	807.15380		37.616	.5586E-02	1.000
-1	0	5	32	3	807.17718		734.176	.4959E-03	.932
-1	1	19	25	3	807.18569		1147.817	.2485E-05	1.037
-1	0	5	32	1	807.18899	150	734.170	.1981E-02	.931
1	-1	1	13	3	807.18911		120.030	.1593E-02	.940
1	-1	1	13	1	807.19186	-136	120.025	.6372E-02	.940
-1	1	20	27	0	807.21604		1294.654	.1403E-05	1.005
1	-1	2	15	2	807.21975	15	163.674	.5361E-02	.955
-1	1	19	25	1	807.22357		1147.811	.9931E-05	1.036
1	-1	2	15	0	807.22366		163.669	.1340E-02	.955
1	-1	3	17	3	807.25807	-56	216.532	.4279E-02	.958
-1	0	5	31	3	807.25817		692.801	.5901E-03	.936
1	-1	3	17	1	807.26131		216.526	.2140E-02	.958
-1	0	5	31	1	807.26950	-93	692.795	.2358E-02	.935
1	-1	4	19	2	807.30710	24	278.590	.3265E-02	.958
1	-1	4	19	0	807.31171		278.585	.8163E-03	.958
-1	0	5	30	3	807.33642	64	652.711	.6971E-03	.940
-1	0	5	30	1	807.34728	-15	652.706	.2785E-02	.939
-1	1	20	27	2	807.34790		1294.660	.5809E-05	1.040
1	-1	5	21	3	807.36299		349.852	.5958E-03	.957
1	-1	5	21	1	807.36671	-65	349.846	.2383E-02	.957
-1	0	5	29	3	807.41195	-81	613.908	.8172E-03	.944
-1	0	5	29	1	807.42233	-57	613.902	.3265E-02	.943

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	-1	6	23	2	807.42965		430.302	.8323E-03	.956
1	-1	6	23	0	807.43491	-233*	430.297	.1663E-02	.955
-1	0	5	28	3	807.48478	56	576.390	.9508E-03	.948
-1	0	5	28	1	807.49468	-55	576.385	.3799E-02	.947
1	-1	7	25	3	807.50284		519.941	.2776E-03	.954
1	-1	7	25	1	807.50700	-44	519.935	.1109E-02	.953
-1	0	5	27	3	807.55492		540.161	.1098E-02	.952
-1	0	5	27	1	807.56435	-62	540.155	.4386E-02	.951
1	-1	8	27	2	807.58692	-129	618.752	.7076E-03	.951
-1	1	12	12	2	807.58989		391.497	.1396E-04	1.018
1	-1	8	27	0	807.59274		618.746	.1769E-03	.951
-1	1	12	12	0	807.59595		391.491	.2797E-04	1.020
-1	0	5	26	3	807.62240	-12	505.219	.1256E-02	.955
-1	0	5	26	1	807.63135	-26	505.213	.5023E-02	.955
1	-1	9	29	3	807.67720		726.733	.4314E-03	.949
-1	1	13	14	3	807.68123		476.844	.1201E-04	1.021
1	-1	9	29	1	807.68178		726.728	.2157E-03	.949
-1	1	13	14	1	807.68569		476.839	.4808E-04	1.022
-1	0	5	25	3	807.68723		471.566	.1427E-02	.959
-1	0	5	25	1	807.69571	-36	471.560	.5701E-02	.958
-1	0	5	24	3	807.74943	-151	439.202	.1606E-02	.962
-1	0	5	24	1	807.75744	-42	439.196	.6418E-02	.961
1	-1	10	31	2	807.77850		843.868	.2513E-03	.947
-1	1	14	16	2	807.78319		571.371	.5363E-04	1.024
1	-1	10	31	0	807.78484		843.862	.6275E-04	.946
-1	1	14	16	0	807.80506		571.366	.1342E-04	1.025
-1	0	5	23	3	807.80901		408.128	.1793E-02	.965
-1	0	5	23	1	807.81656	-26	408.122	.7173E-02	.965
-1	0	5	22	3	807.86598		378.344	.1985E-02	.968
-1	0	5	22	1	807.87309	-36	378.339	.7940E-02	.968
1	-1	11	33	3	807.88568		970.152	.3493E-04	.944
1	-1	11	33	1	807.89063		970.146	.1397E-03	.944
-1	1	15	18	3	807.89121		675.076	.4839E-04	1.027
-1	1	15	18	1	807.90071		675.071	.2419E-04	1.027
-1	0	5	21	3	807.92037		349.852	.2178E-02	.971
-1	0	5	21	1	807.92704	-38	349.846	.8711E-02	.971
-1	1	18	24	0	807.94584		1041.122	.1378E-04	.820
-1	0	5	20	3	807.97219		322.651	.2368E-02	.974

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	0	5	20	1	807.97842	-37	322.645	.9471E-02	.974
1	-1	12	35	2	808.00395		1105.565	.3712E-04	.941
1	-1	12	35	0	808.01075		1105.559	.7424E-04	.941
-1	1	16	20	2	808.01113		787.942	.3798E-04	1.030
-1	0	5	19	3	808.02145		296.742	.2550E-02	.977
-1	0	5	19	1	808.02726	-34	296.737	.1019E-01	.976
-1	0	5	18	3	808.06817		272.126	.2717E-02	.979
-1	0	5	18	1	808.07356	-29	272.120	.1087E-01	.979
-1	1	16	20	0	808.11130		787.936	.9275E-05	1.006
-1	0	5	17	3	808.11235		248.802	.2867E-02	.982
-1	0	5	17	1	808.11735	-43	248.797	.1146E-01	.981
-1	1	17	22	3	808.13526		909.965	.6712E-05	1.033
-1	0	5	16	3	808.15401		226.772	.2990E-02	.984
-1	1	17	22	1	808.15514		909.959	.2685E-04	1.033
-1	0	5	16	1	808.15863	-51	226.767	.1196E-01	.984
-1	0	5	15	3	808.19316		206.036	.3081E-02	.986
-1	0	5	15	1	808.19741	-56	206.030	.1232E-01	.986
-1	0	5	14	3	808.22982		186.593	.3134E-02	.988
-1	0	5	14	1	808.23371	-63	186.588	.1254E-01	.988
-1	0	5	13	3	808.26398		168.446	.3142E-02	.990
-1	0	5	13	1	808.26754	-60	168.440	.1257E-01	.990
-1	1	18	24	2	808.27352		1041.127	.8707E-05	1.036
-1	0	5	12	3	808.29566		151.593	.3100E-02	.992
-1	0	5	12	1	808.29891	-51	151.588	.1239E-01	.991
-1	0	5	11	3	808.32488		136.035	.2998E-02	.993
-1	0	5	11	1	808.32783	-52	136.030	.1199E-01	.993
-1	0	5	10	3	808.35162		121.773	.2835E-02	.995
-1	0	5	10	1	808.35431	-12	121.768	.1134E-01	.995
-1	0	5	9	3	808.37592		108.807	.2600E-02	.996
-1	0	5	9	1	808.37835	-31	108.802	.1040E-01	.996
-1	0	5	8	3	808.39776		97.137	.2289E-02	.997
-1	0	5	8	1	808.39997	-78	97.131	.9155E-02	.997
1	-1	0	10	2	808.40631		71.334	.3815E-02	1.000
1	-1	0	10	0	808.40786	55	71.329	.7630E-02	1.000
-1	1	19	26	3	808.41302		1181.424	.2618E-05	1.038
-1	1	20	28	0	808.41312		1330.829	.1413E-05	.999
-1	0	5	7	3	808.41717		86.762	.1893E-02	.998
-1	0	5	7	1	808.41917	-21	86.757	.7571E-02	.998
-1	0	5	6	3	808.43413		77.684	.1398E-02	.999
-1	0	5	6	1	808.43595	-20	77.679	.5594E-02	.999
-1	0	5	5	3	808.44866		69.903	.7829E-03	1.000
-1	0	5	5	1	808.45033	-79	69.898	.3132E-02	1.000
-1	1	19	26	1	808.45455		1181.419	.1046E-04	1.037
-1	-1	3	4	3	808.45881	-4	31.136	.1083E-01	1.000
-1	-1	2	6	2	808.45933	-3	35.312	.9450E-02	1.002
-1	-1	3	4	1	808.46041		31.131	.5414E-02	1.000
-1	-1	2	6	0	808.46135		35.307	.2362E-02	1.002
-1	-1	1	8	3	808.46710		48.714	.2160E-02	1.014
-1	-1	1	8	1	808.46913	-42	48.709	.8639E-02	1.014
1	-1	1	12	3	808.51359		103.176	.1579E-02	.949
1	-1	1	12	1	808.51614	-52	103.171	.6309E-02	.948
1	-1	2	14	2	808.54898	8	144.230	.5381E-02	.960
1	-1	2	14	0	808.55256		144.225	.1345E-02	.960
-1	1	20	28	2	808.57022		1330.835	.5895E-05	1.042
1	-1	3	16	3	808.59190	25	194.500	.4370E-02	.963
1	-1	3	16	1	808.59493		194.495	.2183E-02	.962
1	-1	4	18	2	808.64533	-2	253.973	.3388E-02	.962
1	-1	4	18	0	808.64961		253.968	.8470E-03	.962
1	-1	5	20	3	808.70566		322.651	.6288E-03	.961
1	-1	5	20	1	808.70916	-61	322.645	.2513E-02	.960
-1	1	11	11	3	808.77271		329.600	.1023E-04	1.017
-1	1	11	11	1	808.77546		329.594	.4091E-04	1.017
1	-1	6	22	2	808.77658		400.520	.8922E-03	.959
1	-1	6	22	0	808.78150	-136	400.514	.1783E-02	.958
-1	1	12	13	2	808.85191		408.341	.3595E-04	1.020
1	-1	7	24	3	808.85408		487.580	.3025E-03	.957
1	-1	7	24	1	808.85802	110	487.575	.1209E-02	.956
-1	1	12	13	0	808.86036		408.336	.7197E-04	1.021
-1	1	13	15	3	808.93791		496.275	.2053E-04	1.022
1	-1	8	26	2	808.94231	10	583.816	.7836E-03	.954
-1	1	13	15	1	808.94342		496.270	.8222E-04	1.023
1	-1	8	26	0	808.94779		583.810	.1959E-03	.954
-1	1	14	17	2	809.03482		593.386	.7603E-04	1.025
1	-1	9	28	3	809.03679		689.225	.4853E-03	.952
1	-1	9	28	1	809.04114		689.219	.2424E-03	.951
-1	1	14	17	0	809.06166		593.381	.1903E-04	1.026

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i	ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	1	18	25	0	809.07407		1073.447	.1329E-04	.748	1	-1	2	13	2	809.87618	18	126.081	.5312E-02	.965
-1	1	15	19	3	809.13733		699.673	.6131E-04	1.028	1	-1	2	13	0	809.87946		126.076	.1328E-02	.965
1	-1	10	30	2	809.14212		803.790	.2869E-03	.949	-1	0	4	30	2	809.90416	172	634.573	.3034E-02	.925
1	-1	10	30	0	809.14813		803.785	.7172E-04	.949	-1	0	4	30	0	809.92096		634.567	.7569E-03	.923
-1	1	15	19	1	809.14850		699.667	.3069E-04	1.029	1	-1	3	15	3	809.92371	-51	173.762	.4385E-02	.966
-1	1	16	21	2	809.25219		815.117	.4457E-04	1.031	1	-1	3	15	1	809.92655		173.757	.2192E-02	.966
1	-1	11	32	3	809.25339		927.509	.4054E-04	.947	-1	1	10	10	2	809.97329		273.013	.5882E-04	1.016
1	-1	11	32	1	809.25812		927.503	.1620E-03	.946	-1	1	10	10	0	809.97720		273.008	.1471E-04	1.016
-1	1	16	21	0	809.36113		815.112	.1088E-04	1.007	-1	0	4	29	2	809.98084	60	595.767	.3563E-02	.930
-1	1	17	23	3	809.37064		939.717	.7436E-05	1.034	1	-1	4	17	2	809.98158	-12	230.649	.3462E-02	.965
1	-1	12	34	2	809.37559		1060.361	.4374E-04	.944	1	-1	4	17	0	809.98553		230.643	.8655E-03	.965
1	-1	12	34	0	809.38206		1060.355	.8748E-04	.944	-1	0	4	29	0	809.99690	-12	595.762	.8889E-03	.928
-1	1	17	23	1	809.39301		939.711	.2978E-04	1.035	-1	1	11	12	3	810.03713		345.151	.2632E-04	1.018
-1	0	4	35	2	809.47805	62	847.873	.1212E-02	.898	-1	1	11	12	1	810.04054		345.146	.1054E-03	1.019
-1	0	4	35	0	809.49844		847.867	.3021E-03	.895	1	-1	5	19	3	810.04636		296.742	.6541E-03	.964
-1	1	18	25	2	809.50383		1073.452	.9216E-05	1.037	1	-1	5	19	1	810.04965	358*	296.737	.2616E-02	.964
-1	0	4	34	2	809.56905	-24	802.646	.1477E-02	.903	-1	0	4	28	2	810.05473	-150	558.249	.4148E-02	.934
-1	0	4	34	0	809.58874		802.640	.3685E-03	.901	-1	0	4	28	0	810.07004	-2	558.243	.1035E-02	.932
-1	1	20	29	0	809.60343		1368.290	.1382E-05	.992	-1	1	12	14	2	810.11127		426.480	.6159E-04	1.021
-1	1	19	27	3	809.63744		1216.319	.2670E-05	1.040	1	-1	6	21	2	810.12159		372.029	.9444E-03	.962
-1	0	4	33	2	809.65713	7	758.701	.1789E-02	.909	-1	1	12	14	0	810.12219		426.475	.1233E-03	1.022
-1	0	4	33	0	809.67611		758.695	.4463E-03	.907	-1	0	4	27	2	810.12586	4	522.018	.4798E-02	.939
-1	1	19	27	1	809.68240		1216.313	.1067E-04	1.039	1	-1	6	21	0	810.12617	-26	372.023	.1887E-02	.961
1	-1	0	9	2	809.74072		58.366	.3619E-02	1.000	-1	0	4	27	0	810.14042	11	522.012	.1197E-02	.937
1	-1	0	9	0	809.74227	51	58.361	.7237E-02	1.000	-1	1	18	26	0	810.17134		1107.059	.1197E-04	.659
-1	0	4	32	2	809.74233	-58	716.040	.2149E-02	.914	-1	1	13	16	3	810.19188		517.000	.2922E-04	1.024
-1	0	4	32	0	809.76059		716.034	.5360E-03	.912	-1	0	4	26	2	810.19424	16	487.075	.5500E-02	.943
-1	-1	3	3	3	809.76314	166	25.948	.1060E-01	1.000	-1	1	13	16	1	810.19848		516.994	.1170E-03	1.025
-1	-1	3	3	1	809.76467		25.942	.5298E-02	1.000	1	-1	7	23	3	810.20343		456.509	.3254E-03	.959
-1	-1	2	5	2	809.76847	-316*	27.530	.8840E-02	1.001	1	-1	7	23	1	810.20715	21	456.504	.1302E-02	.959
-1	-1	2	5	0	809.77032		27.525	.2210E-02	1.001	-1	0	4	26	0	810.20806	-70	487.069	.1374E-02	.942
-1	-1	1	7	3	809.78117		38.339	.2015E-02	1.010	-1	0	4	25	2	810.25990	17	453.420	.6262E-02	.948
-1	-1	1	7	1	809.78308	-44	38.334	.8059E-02	1.010	-1	0	4	25	0	810.27297	21	453.415	.1562E-02	.946
-1	1	20	29	2	809.78957		1368.295	.5814E-05	1.043	-1	1	14	18	2	810.28371		616.694	.9678E-04	1.027
-1	0	4	31	2	809.82466	-32	674.664	.2564E-02	.920	1	-1	8	25	2	810.29584	-71	550.168	.8579E-03	.957
1	-1	1	11	3	809.83607		87.617	.1536E-02	.957	1	-1	8	25	0	810.30100		550.162	.2143E-03	.956
1	-1	1	11	1	809.83845	-32	87.612	.6137E-02	.956	-1	1	14	18	0	810.31542		616.688	.2420E-04	1.027
-1	0	4	31	0	809.84220		674.658	.6389E-03	.917	-1	0	4	24	2	810.32285	16	421.055	.7065E-02	.952

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	0	4	24	0	810.33518	28	421.050	.1763E-02	.950
-1	1	15	20	3	810.38067		725.561	.7231E-04	1.030
-1	0	4	23	2	810.38313	12	389.980	.7906E-02	.956
-1	1	15	20	1	810.39351		725.555	.3615E-04	1.030
1	-1	9	27	3	810.39456	76	653.003	.5395E-03	.954
-1	0	4	23	0	810.39472	60	389.975	.1972E-02	.954
1	-1	9	27	1	810.39869		652.998	.2698E-03	.954
-1	0	4	22	2	810.44074	7	360.196	.8773E-02	.960
-1	0	4	22	0	810.45161	25	360.190	.2189E-02	.958
-1	1	16	22	2	810.49042		843.583	.4964E-04	1.033
-1	0	4	21	2	810.49571	0	331.702	.9641E-02	.963
1	-1	10	29	2	810.50397		764.998	.3244E-03	.952
-1	0	4	21	0	810.50586	45	331.697	.2408E-02	.962
1	-1	10	29	0	810.50965		764.993	.8102E-04	.951
-1	0	4	20	2	810.54805	-8	304.500	.1051E-01	.967
-1	0	4	20	0	810.55750	56	304.495	.2626E-02	.966
-1	0	4	19	2	810.59778	4	278.590	.1135E-01	.970
-1	1	17	24	3	810.60314		970.758	.7916E-05	1.036
-1	0	4	19	0	810.60655	40	278.585	.2834E-02	.969
-1	1	16	22	0	810.60689		843.578	.1211E-04	1.008
1	-1	11	31	3	810.61936		886.150	.4653E-04	.949
1	-1	11	31	1	810.62387		886.144	.1861E-03	.949
-1	1	17	24	1	810.62797		970.752	.3166E-04	1.036
-1	0	4	18	2	810.64493	-6	253.973	.1213E-01	.973
-1	0	4	18	0	810.65302	59	253.968	.3030E-02	.972
-1	0	4	17	2	810.68949	-8	230.649	.1284E-01	.976
-1	0	4	17	0	810.69694	151	230.643	.3208E-02	.975
-1	1	18	26	2	810.73122		1107.065	.9447E-05	1.039
-1	0	4	16	2	810.73150	-12	208.618	.1346E-01	.979
-1	0	4	16	0	810.73832	122	208.612	.3361E-02	.978
1	-1	12	33	2	810.74552		1016.439	.5098E-04	.946
1	-1	12	33	0	810.75168		1016.433	.1020E-03	.946
-1	0	4	15	2	810.77096	-10	187.881	.1394E-01	.982
-1	0	4	15	0	810.77718		187.875	.3482E-02	.981
-1	1	20	30	0	810.78602		1407.035	.1317E-05	.982
-1	0	4	14	2	810.80789	1	168.438	.1426E-01	.984
-1	0	4	14	0	810.81353		168.432	.3565E-02	.984
-1	0	4	13	2	810.84230	19	150.290	.1440E-01	.986

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	0	4	13	0	810.84739		150.284	.3600E-02	.986
-1	1	19	28	3	810.85890		1252.499	.2649E-05	1.042
-1	0	4	12	2	810.87420	37	133.436	.1435E-01	.989
1	-1	13	35	3	810.87734		1155.861	.1335E-04	.944
-1	0	4	12	0	810.87877		133.431	.3583E-02	.988
1	-1	13	35	1	810.88221		1155.855	.5335E-04	.943
-1	0	4	11	2	810.90360	36	117.878	.1405E-01	.991
-1	1	19	28	1	810.90709		1252.494	.1058E-04	1.040
-1	0	4	11	0	810.90768		117.873	.3510E-02	.990
-1	0	4	10	2	810.93052	34	103.615	.1349E-01	.992
-1	0	4	10	0	810.93415		103.610	.3373E-02	.992
-1	0	4	9	2	810.95495	36	90.649	.1268E-01	.994
-1	0	4	9	0	810.95817		90.643	.3169E-02	.994
-1	0	4	8	2	810.97693	24	78.978	.1157E-01	.996
-1	0	4	8	0	810.97976		78.972	.2889E-02	.995
-1	0	4	7	2	810.99644	29	68.603	.1013E-01	.997
-1	0	4	7	0	810.99893		68.598	.2533E-02	.997
-1	1	20	30	2	811.00591		1407.040	.5606E-05	1.045
-1	0	4	6	2	811.01349	70	59.525	.8352E-02	.998
-1	0	4	6	0	811.01568		59.520	.2088E-02	.998
-1	0	4	5	2	811.02810	58	51.743	.6172E-02	.999
-1	0	4	5	0	811.03003		51.738	.1543E-02	.999
-1	0	4	4	2	811.04027	55	45.258	.3478E-02	1.000
-1	0	4	4	0	811.04197		45.253	.8696E-03	1.000
1	-1	0	8	2	811.07109		46.695	.3357E-02	1.000
1	-1	0	8	0	811.07263	209*	46.689	.6715E-02	1.000
-1	-1	2	4	2	811.07524	-154	21.045	.8152E-02	1.000
-1	-1	2	4	0	811.07695		21.040	.2038E-02	1.000
-1	-1	1	6	3	811.09285		29.260	.1840E-02	1.007
-1	-1	1	6	1	811.09466	-25	29.255	.7361E-02	1.007
1	-1	1	10	3	811.15649		73.353	.1462E-02	.964
1	-1	1	10	1	811.15871	-48	73.348	.5842E-02	.963
-1	1	9	9	3	811.18877		221.747	.8302E-04	1.014
-1	1	9	9	1	811.19108		221.742	.4151E-04	1.014
1	-1	2	12	2	811.20130	14	109.227	.5147E-02	.970
1	-1	2	12	0	811.20430		109.222	.1287E-02	.970
-1	1	18	27	0	811.23307		1141.959	.1014E-04	.561
-1	1	10	11	2	811.24033		287.271	.1513E-03	1.017

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	1	10	11	0	811.24555		287.265	.3786E-04	1.018
1	-1	3	14	3	811.25346	-16	154.319	.4329E-02	.970
1	-1	3	14	1	811.25611		154.314	.2165E-02	.970
-1	1	11	13	3	811.29888		361.997	.4520E-04	1.020
-1	1	11	13	1	811.30299		361.992	.1808E-03	1.020
1	-1	4	16	2	811.31579	7	208.618	.3486E-02	.969
1	-1	4	16	0	811.31944		208.612	.8706E-03	.968
-1	1	12	15	2	811.36794		445.913	.8785E-04	1.023
-1	1	12	15	0	811.38139		445.908	.1759E-03	1.024
1	-1	5	18	3	811.38506		272.126	.6706E-03	.967
1	-1	5	18	1	811.38815	-106	272.120	.2682E-02	.967
-1	1	13	17	3	811.44312		539.017	.3732E-04	1.026
-1	1	13	17	1	811.45084		539.011	.1493E-03	1.026
1	-1	6	20	2	811.46463		344.829	.9851E-03	.964
1	-1	6	20	0	811.46890	-101	344.824	.1970E-02	.964
-1	1	14	19	2	811.52983		641.293	.1146E-03	1.029
1	-1	7	22	3	811.55085		426.729	.3459E-03	.962
1	-1	7	22	1	811.55437	-103	426.723	.1384E-02	.962
-1	1	14	19	0	811.56629		641.288	.2862E-04	1.028
-1	1	15	21	3	811.62119		752.740	.8081E-04	1.031
-1	1	15	21	1	811.63572		752.734	.4044E-04	1.032
1	-1	8	24	2	811.64749	61	517.809	.9270E-03	.959
1	-1	8	24	0	811.65233		517.803	.2318E-03	.959
-1	1	16	23	2	811.72581		873.339	.5309E-04	1.035
1	-1	9	26	3	811.75048	98	618.069	.5936E-03	.957
1	-1	9	26	1	811.75440		618.064	.2968E-03	.957
-1	1	17	25	3	811.83275		1003.087	.8145E-05	1.037
-1	1	16	23	0	811.84873		873.334	.1295E-04	1.010
-1	1	17	25	1	811.85997		1003.082	.3261E-04	1.038
1	-1	10	28	2	811.86401		727.492	.3625E-03	.954
1	-1	10	28	0	811.86937		727.487	.9062E-04	.954
-1	1	18	27	2	811.95568		1141.964	.9421E-05	1.041
-1	1	20	31	0	811.95967		1447.064	.1226E-05	.970
1	-1	11	30	3	811.98356		846.076	.5284E-04	.951
1	-1	11	30	1	811.98786		846.070	.2113E-03	.951
-1	0	3	35	3	812.04409	8	833.774	.1260E-02	.864
-1	0	3	35	1	812.05502	-88	833.768	.6284E-03	.862
-1	1	19	29	3	812.07739		1289.966	.2565E-05	1.043

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	-1	12	32	2	812.11373		973.800	.5888E-04	.949
1	-1	12	32	0	812.11957		973.794	.1176E-03	.948
-1	1	19	29	1	812.12860		1289.960	.1025E-04	1.042
-1	0	3	34	3	812.13773	33	788.545	.1539E-02	.871
-1	0	3	34	1	812.14831	-141	788.539	.7688E-03	.870
-1	1	20	31	2	812.21922		1447.070	.5291E-05	1.046
-1	0	3	33	3	812.22827	45	744.599	.1869E-02	.879
-1	0	3	33	1	812.23850	-100	744.593	.9326E-03	.877
1	-1	13	34	3	812.24960		1110.661	.1565E-04	.946
1	-1	13	34	1	812.25426		1110.655	.6259E-04	.946
-1	0	3	32	3	812.31577	30	701.937	.2251E-02	.886
-1	0	3	32	1	812.32563	-70	701.931	.1123E-02	.884
-1	-1	2	3	2	812.37964	20	15.856	.7445E-02	1.000
-1	-1	2	3	0	812.38124		15.851	.1861E-02	1.000
1	-1	0	7	2	812.39740		36.319	.3032E-02	1.000
1	-1	0	7	0	812.39894	292*	36.314	.6064E-02	1.000
-1	0	3	31	3	812.40024	58	660.559	.2691E-02	.893
-1	-1	1	5	3	812.40214		21.478	.1636E-02	1.004
-1	-1	1	5	1	812.40386	-303*	21.473	.6545E-02	1.004
-1	0	3	31	1	812.40974		660.553	.1343E-02	.891
-1	1	8	8	2	812.42181		175.797	.1154E-03	1.013
-1	1	8	8	0	812.42468		175.792	.2886E-04	1.013
-1	1	9	10	3	812.45824		234.710	.2133E-03	1.016
-1	1	9	10	1	812.46099		234.705	.1067E-03	1.016
1	-1	1	9	3	812.47479		60.386	.1357E-02	.970
1	-1	1	9	1	812.47687	-33	60.381	.5426E-02	.970
-1	0	3	30	3	812.48172	106	620.467	.3190E-02	.899
-1	0	3	30	1	812.49086	-17	620.461	.1593E-02	.898
-1	1	10	12	2	812.50472		302.824	.2599E-03	1.019
-1	1	10	12	0	812.51134		302.818	.6497E-04	1.019
1	-1	2	11	2	812.52429	294*	93.668	.4874E-02	.974
1	-1	2	11	0	812.52704		93.663	.1219E-02	.974
-1	1	11	14	3	812.55795		380.138	.6453E-04	1.021
-1	0	3	29	3	812.56025	51	581.661	.3757E-02	.906
-1	1	11	14	1	812.56280		380.133	.2584E-03	1.022
-1	0	3	29	1	812.56902	-63	581.655	.1876E-02	.905
1	-1	3	13	3	812.58110	-4	136.170	.4192E-02	.974
1	-1	3	13	1	812.58358		136.165	.2094E-02	.973

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	1	12	16	2	812.62189		466.639	.1124E-03	1.024
-1	0	3	28	3	812.63585	64	544.141	.4386E-02	.912
-1	1	12	16	0	812.63792		466.634	.2250E-03	1.025
-1	0	3	28	1	812.64425	276*	544.135	.2191E-02	.911
1	-1	4	15	2	812.64792	-91	187.881	.3445E-02	.972
1	-1	4	15	0	812.65129		187.875	.8612E-03	.972
-1	1	13	18	3	812.69159		562.327	.4429E-04	1.027
-1	1	13	18	1	812.70045		562.321	.1773E-03	1.028
-1	0	3	27	3	812.70856	35	507.909	.5082E-02	.918
-1	0	3	27	1	812.71658	-5	507.903	.2538E-02	.917
1	-1	5	17	3	812.72172		248.802	.6764E-03	.970
1	-1	5	17	1	812.72462	-39	248.797	.2703E-02	.969
-1	1	14	20	2	812.77315		667.184	.1286E-03	1.030
-1	0	3	26	3	812.77840	23	472.965	.5843E-02	.924
-1	0	3	26	1	812.78605	29	472.959	.2918E-02	.923
1	-1	6	19	2	812.80567		318.921	.1013E-02	.967
1	-1	6	19	0	812.80964	193*	318.916	.2027E-02	.967
-1	1	14	20	0	812.81423		667.179	.3211E-04	1.029
-1	0	3	25	3	812.84540	17	439.310	.6665E-02	.930
-1	0	3	25	1	812.85268	65	439.304	.3329E-02	.929
-1	1	15	22	3	812.85887		781.209	.8679E-04	1.033
-1	1	15	22	1	812.87509		781.204	.4344E-04	1.034
1	-1	7	21	3	812.89631		398.239	.3627E-03	.965
1	-1	7	21	1	812.89962	-64	398.233	.1449E-02	.964
-1	0	3	24	3	812.90959	70	406.944	.7534E-02	.935
-1	0	3	24	1	812.91650	24	406.938	.3763E-02	.934
-1	1	16	24	2	812.95831		904.384	.5489E-04	1.036
-1	0	3	23	3	812.97099	8	375.868	.8448E-02	.940
-1	0	3	23	1	812.97754	32	375.862	.4224E-02	.940
1	-1	8	23	2	812.99722	-23	486.740	.9898E-03	.962
1	-1	8	23	0	813.00175		486.734	.2475E-03	.962
-1	0	3	22	3	813.02964	51	346.082	.9404E-02	.946
-1	0	3	22	1	813.03583	34	346.077	.4697E-02	.945
-1	1	17	26	3	813.05944		1036.704	.8164E-05	1.039
-1	0	3	21	3	813.08556	168	317.588	.1036E-01	.950
-1	1	16	24	0	813.08678		904.379	.1341E-04	1.012
-1	1	17	26	1	813.08898		1036.699	.3266E-04	1.039
-1	0	3	21	1	813.09139		317.582	.5179E-02	.950

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	-1	9	25	3	813.10452	22	584.424	.6444E-03	.959
1	-1	9	25	1	813.10824		584.418	.3222E-03	.959
-1	1	20	32	0	813.12276		1488.376	.1115E-05	.953
-1	0	3	20	3	813.13876	52	290.385	.1132E-01	.955
-1	0	3	20	1	813.14425	31	290.380	.5656E-02	.954
-1	1	18	28	2	813.17716		1178.151	.9170E-05	1.042
-1	0	3	19	3	813.18929	190*	264.475	.1225E-01	.959
-1	0	3	19	1	813.19443		264.469	.6127E-02	.959
1	-1	10	27	2	813.22220		691.274	.4008E-03	.957
1	-1	10	27	0	813.22726		691.268	.1001E-03	.956
-1	0	3	18	3	813.23714	149	239.857	.1315E-01	.964
-1	0	3	18	1	813.24196		239.851	.6570E-02	.963
-1	0	3	17	3	813.28236	141	216.532	.1397E-01	.968
-1	0	3	17	1	813.28685		216.526	.6978E-02	.967
-1	1	19	30	3	813.29286		1328.717	.2436E-05	1.045
-1	0	3	16	3	813.32495	122	194.500	.1468E-01	.971
-1	0	3	16	1	813.32913		194.495	.7338E-02	.971
1	-1	11	29	3	813.34596		807.287	.5940E-04	.954
-1	1	19	30	1	813.34690		1328.711	.9726E-05	1.043
1	-1	11	29	1	813.35005		807.281	.2376E-03	.954
-1	0	3	15	3	813.36493	-21	173.762	.1527E-01	.975
-1	0	3	15	1	813.36882		173.757	.7627E-02	.974
-1	0	3	14	3	813.40233	-21	154.319	.1570E-01	.978
-1	0	3	14	1	813.40594		154.314	.7848E-02	.978
-1	1	20	32	2	813.42945		1488.382	.4907E-05	1.048
-1	0	3	13	3	813.43716	-28	136.170	.1594E-01	.981
-1	0	3	13	1	813.44050		136.165	.7971E-02	.981
-1	0	3	12	3	813.46944	8	119.316	.1598E-01	.984
-1	0	3	12	1	813.47252		119.311	.7991E-02	.984
1	-1	12	31	2	813.48017		932.445	.6722E-04	.951
1	-1	12	31	0	813.48571		932.439	.1344E-03	.951
-1	0	3	11	3	813.49917	-12	103.758	.1579E-01	.987
-1	0	3	11	1	813.50202		103.752	.7897E-02	.987
-1	0	3	10	3	813.52638	-17	89.495	.1534E-01	.989
-1	0	3	10	1	813.52900		89.489	.7672E-02	.989
-1	0	3	9	3	813.55108	-24	76.527	.1463E-01	.991
-1	0	3	9	1	813.55350		76.522	.7314E-02	.991
-1	0	3	8	3	813.57328	-15	64.856	.1363E-01	.993

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	0	3	8	1	813.57551		64.851	.6817E-02	.993
-1	0	3	7	3	813.59298	-19	54.481	.1235E-01	.995
-1	0	3	7	1	813.59504		54.476	.6175E-02	.995
-1	0	3	6	3	813.61020	-18	45.403	.1076E-01	.997
-1	0	3	6	1	813.61212		45.398	.5381E-02	.997
1	-1	13	33	3	813.62014		1066.744	.1815E-04	.948
1	-1	13	33	1	813.62459		1066.738	.7261E-04	.948
-1	0	3	5	3	813.62495	-33	37.621	.8836E-02	.998
-1	0	3	5	1	813.62673		37.616	.4418E-02	.998
-1	0	3	4	3	813.63722	-3	31.136	.6536E-02	.999
-1	0	3	4	1	813.63890		31.131	.3268E-02	.999
-1	0	3	3	3	813.64704	19	25.948	.3728E-02	1.000
-1	0	3	3	1	813.64863		25.942	.1864E-02	1.000
-1	1	7	7	3	813.66981		135.175	.3955E-04	1.011
-1	1	7	7	1	813.67182		135.169	.1584E-03	1.012
-1	-1	2	2	2	813.68164	18	11.965	.6840E-02	1.000
-1	-1	2	2	0	813.68317		11.960	.1710E-02	1.000
-1	1	8	9	2	813.69388		187.466	.2953E-03	1.014
-1	1	8	9	0	813.69751		187.461	.7389E-04	1.015
-1	-1	1	4	3	813.70904		14.993	.1407E-02	1.002
-1	-1	1	4	1	813.71068	-11	14.987	.5628E-02	1.002
1	-1	0	6	2	813.71962		27.241	.2646E-02	1.000
1	-1	0	6	0	813.72115	76	27.235	.5291E-02	1.000
-1	1	9	11	3	813.72508		248.969	.3658E-03	1.017
-1	1	9	11	1	813.72829		248.964	.1829E-03	1.017
-1	1	10	13	2	813.76645		319.671	.3715E-03	1.020
1	-1	14	35	2	813.77062		1210.163	.3743E-04	.945
-1	1	10	13	0	813.77451		319.666	.9296E-04	1.021
1	-1	14	35	0	813.77661		1210.157	.9359E-05	.945
1	-1	1	8	3	813.79091		48.714	.1221E-02	.976
1	-1	1	8	1	813.79287	-57	48.709	.4885E-02	.976
-1	1	11	15	3	813.81431		399.573	.8284E-04	1.023
-1	1	11	15	1	813.81991		399.567	.3314E-03	1.023
1	-1	2	10	2	813.84512	26	79.405	.4497E-02	.978
1	-1	2	10	0	813.84763		79.399	.1124E-02	.978
-1	1	12	17	2	813.87309		488.659	.1340E-03	1.026
-1	1	12	17	0	813.89173		488.653	.2682E-03	1.027
1	-1	3	12	3	813.90659	-33	119.316	.3963E-02	.977
1	-1	3	12	1	813.90891		119.311	.1982E-02	.977
-1	1	13	19	3	813.93727		586.929	.4993E-04	1.029
-1	1	13	19	1	813.94730		586.924	.1997E-03	1.029
1	-1	4	14	2	813.97795	143	168.438	.3336E-02	.975
1	-1	4	14	0	813.98105		168.432	.8340E-03	.975
-1	1	18	28	0	813.98419		1178.145	.1022E-04	.580
-1	1	14	21	2	814.01364		694.367	.1387E-03	1.032
1	-1	5	16	3	814.05631		226.772	.6693E-03	.972
1	-1	5	16	1	814.05903	-65	226.767	.2677E-02	.972
-1	1	14	21	0	814.05918		694.361	.3460E-04	1.030
-1	1	15	23	3	814.09368		810.969	.9023E-04	1.035
-1	1	15	23	1	814.11157		810.963	.4512E-04	1.035
1	-1	6	18	2	814.14468		294.306	.1026E-02	.970
1	-1	6	18	0	814.14836	126	294.300	.2049E-02	.969
-1	1	16	25	2	814.18791		936.718	.5528E-04	1.038
1	-1	7	20	3	814.23976		371.040	.3742E-03	.967
1	-1	7	20	1	814.24289	-98	371.035	.1497E-02	.967
-1	1	20	33	0	814.27312		1530.971	.9920E-06	.931
-1	1	17	27	3	814.28317		1071.609	.7994E-05	1.041
-1	1	17	27	1	814.31496		1071.603	.3198E-04	1.041
-1	1	16	25	0	814.32112		936.712	.1350E-04	1.014
1	-1	8	22	2	814.34498	-25	456.961	.1041E-02	.964
1	-1	8	22	0	814.34922		456.956	.2603E-03	.964
-1	1	18	29	2	814.39565		1215.623	.8753E-05	1.044
1	-1	9	24	3	814.45663	23	552.067	.6912E-03	.962
1	-1	9	24	1	814.46015		552.062	.3453E-03	.961
-1	1	19	31	3	814.50530		1368.752	.2272E-05	1.047
-1	1	19	31	1	814.56197		1368.746	.9070E-05	1.045
1	-1	10	26	2	814.57851		656.342	.4372E-03	.959
1	-1	10	26	0	814.58327		656.337	.1093E-03	.959
-1	0	2	35	2	814.61523	41	823.699	.1229E-02	.797
-1	0	2	35	0	814.63058		823.693	.3060E-03	.794
-1	1	20	33	2	814.63659		1530.977	.4477E-05	1.050
1	-1	11	28	3	814.70651		769.784	.6594E-04	.956
1	-1	11	28	1	814.71041		769.779	.2638E-03	.956
-1	0	2	34	2	814.71327	-163	778.469	.1510E-02	.808
-1	0	2	34	0	814.72818		778.463	.3761E-03	.805
-1	0	2	33	2	814.80789	-9	734.522	.1842E-02	.819

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	0	2	33	0	814.82235		734.516	.4583E-03	.815
1	-1	12	30	2	814.84482		892.374	.7589E-04	.953
1	-1	12	30	0	814.85007		892.369	.1518E-03	.953
-1	0	2	32	2	814.89916	44	691.859	.2228E-02	.829
-1	0	2	32	0	814.91315		691.853	.5551E-03	.826
-1	1	6	6	2	814.93518		99.873	.1074E-03	1.010
-1	1	6	6	0	814.93746		99.868	.2149E-03	1.010
-1	1	7	8	3	814.94433		145.548	.1006E-03	1.013
-1	1	7	8	1	814.94663		145.542	.4026E-03	1.013
-1	1	8	10	2	814.96332		200.430	.5058E-03	1.016
-1	1	8	10	0	814.96777		200.425	.1265E-03	1.016
-1	0	2	31	2	814.98711	173	650.481	.2676E-02	.839
1	-1	13	32	3	814.98892		1024.109	.2086E-04	.951
-1	1	9	12	3	814.98924		264.523	.5236E-03	1.019
-1	1	9	12	1	814.99295		264.518	.2618E-03	1.019
1	-1	13	32	1	814.99317		1024.103	.8334E-04	.950
-1	0	2	31	0	815.00062		650.475	.6665E-03	.836
-1	-1	1	3	3	815.01352		9.804	.1155E-02	1.001
-1	-1	1	3	1	815.01510	-30	9.799	.4621E-02	1.001
-1	1	10	14	2	815.02547		337.813	.4778E-03	1.022
-1	1	10	14	0	815.03505		337.808	.1194E-03	1.022
1	-1	0	5	2	815.03772		19.458	.2202E-02	1.000
1	-1	0	5	0	815.03925	18	19.453	.4404E-02	1.000
-1	1	11	16	3	815.06792		420.301	.9901E-04	1.025
-1	0	2	30	2	815.07179	196*	610.388	.3189E-02	.849
-1	1	11	16	1	815.07431		420.296	.3961E-03	1.025
-1	0	2	30	0	815.08481		610.382	.7943E-03	.846
-1	1	18	29	0	815.10127		1215.617	.1125E-04	.670
1	-1	1	7	3	815.10482		38.339	.1057E-02	.982
1	-1	1	7	1	815.10666	-25	38.334	.4223E-02	.981
-1	1	12	18	2	815.12152		511.971	.1516E-03	1.028
-1	1	12	18	0	815.14278		511.966	.3032E-03	1.028
1	-1	14	34	2	815.14338		1164.968	.4371E-04	.948
1	-1	14	34	0	815.14908		1164.962	.1092E-04	.947
-1	0	2	29	2	815.15325	0	571.580	.3767E-02	.858
1	-1	2	9	2	815.16373	79	66.437	.4015E-02	.982
-1	0	2	29	0	815.16576		571.575	.9395E-03	.856
1	-1	2	9	0	815.16603		66.432	.1004E-02	.982

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	1	13	20	3	815.18013		612.823	.5408E-04	1.031
-1	1	13	20	1	815.19133		612.817	.2163E-03	1.031
1	-1	3	11	3	815.22990		103.758	.3645E-02	.980
-1	0	2	28	2	815.23154	-56	534.060	.4421E-02	.868
1	-1	3	11	1	815.23208		103.752	.1822E-02	.980
-1	0	2	28	0	815.24353	-12	534.055	.1102E-02	.865
-1	1	14	22	2	815.25128		722.839	.1448E-03	1.034
-1	1	14	22	0	815.30111		722.834	.3610E-04	1.031
1	-1	4	13	2	815.30584	69	150.290	.3155E-02	.978
-1	0	2	27	2	815.30669	-17	497.827	.5144E-02	.877
1	-1	4	13	0	815.30869		150.284	.7880E-03	.977
-1	0	2	27	0	815.31816	34	497.822	.1282E-02	.874
-1	1	15	24	3	815.32559		842.018	.9131E-04	1.037
-1	1	15	24	1	815.34514		842.012	.4565E-04	1.037
-1	0	2	26	2	815.37875	5	462.883	.5932E-02	.885
1	-1	5	15	3	815.38878		206.036	.6494E-03	.975
-1	0	2	26	0	815.38969	77	462.877	.1480E-02	.883
1	-1	5	15	1	815.39134	-87	206.030	.2598E-02	.975
-1	1	20	34	0	815.40790		1574.847	.8620E-06	.902
-1	1	16	26	2	815.41456		970.340	.5439E-04	1.040
-1	0	2	25	2	815.44776	-20	429.227	.6794E-02	.894
-1	0	2	25	0	815.45817	77	429.221	.1695E-02	.892
1	-1	6	17	2	815.48161		270.983	.1018E-02	.972
1	-1	6	17	0	815.48502	175	270.978	.2036E-02	.972
-1	1	17	28	3	815.50391		1107.800	.7670E-05	1.043
-1	0	2	24	2	815.51376	-11	396.860	.7712E-02	.902
-1	0	2	24	0	815.52364	48	396.855	.1924E-02	.900
-1	1	17	28	1	815.53789		1107.794	.3065E-04	1.042
-1	1	16	26	0	815.55184		970.334	.1330E-04	1.017
-1	0	2	23	2	815.57680	-5	365.783	.8682E-02	.910
1	-1	7	19	3	815.58119		345.134	.3800E-03	.970
1	-1	7	19	1	815.58413	120	345.129	.1518E-02	.969
-1	0	2	23	0	815.58615	-82	365.778	.2166E-02	.908
-1	1	18	30	2	815.61110		1254.380	.8205E-05	1.046
-1	0	2	22	2	815.63691	4	335.997	.9684E-02	.917
-1	0	2	22	0	815.64573	66	335.992	.2418E-02	.916
1	-1	8	21	2	815.69076		428.473	.1079E-02	.967
-1	0	2	21	2	815.69414	-35	307.503	.1072E-01	.925

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i	ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	-1	8	21	0	815.69472		428.468	.2696E-03	.966	-1	0	2	7	2	816.20918	47	44.391	.1401E-01	.992
-1	0	2	21	0	815.70242	67	307.497	.2675E-02	.923	-1	0	2	7	0	816.21163		44.385	.3500E-02	.991
-1	1	19	32	3	815.71466		1410.071	.2084E-05	1.049	-1	1	6	7	2	816.21227		108.951	.2708E-03	1.012
-1	0	2	20	2	815.74850	-14	280.299	.1175E-01	.931	1	-1	12	29	0	816.21259		853.584	.1694E-03	.955
-1	0	2	20	0	815.75627	0	280.294	.2933E-02	.930	-1	1	6	7	0	816.21500		108.945	.5416E-03	1.012
-1	1	19	32	1	815.77378		1410.065	.8312E-05	1.046	-1	1	5	5	3	816.21550		69.903	.7255E-04	1.009
-1	0	2	19	2	815.80005	-6	254.388	.1277E-01	.938	-1	1	7	9	3	816.21623		157.217	.1718E-03	1.015
1	-1	9	23	3	815.80679	19	521.000	.7303E-03	.964	-1	1	5	5	1	816.21732		69.898	.2902E-03	1.009
-1	0	2	19	0	815.80730	79	254.383	.3188E-02	.937	-1	1	7	9	1	816.21885		157.212	.6871E-03	1.015
1	-1	9	23	1	815.81012		520.995	.3651E-03	.964	-1	0	2	6	2	816.22652	20	35.312	.1256E-01	.994
-1	1	20	34	2	815.84061		1574.853	.4024E-05	1.052	-1	0	2	6	0	816.22873		35.307	.3141E-02	.994
-1	0	2	18	2	815.84881	1	229.770	.1374E-01	.944	-1	1	8	11	2	816.23010		214.690	.7235E-03	1.018
-1	0	2	18	0	815.85556		229.764	.3431E-02	.943	-1	1	8	11	0	816.23544		214.685	.1809E-03	1.018
-1	0	2	17	2	815.89481	-10	206.444	.1464E-01	.950	-1	1	18	30	0	816.23568		1254.374	.1171E-04	.746
-1	0	2	17	0	815.90107		206.439	.3657E-02	.949	-1	0	2	5	2	816.24136	12	27.530	.1084E-01	.996
1	-1	10	25	2	815.93291		622.699	.4707E-03	.961	-1	0	2	5	0	816.24337		27.525	.2711E-02	.996
1	-1	10	25	0	815.93739		622.694	.1177E-03	.961	-1	1	9	13	3	816.25071		281.372	.6736E-03	1.020
-1	0	2	16	2	815.93809	4	184.412	.1546E-01	.956	-1	0	2	4	2	816.25371	-22	21.045	.8847E-02	.998
-1	0	2	16	0	815.94387		184.407	.3860E-02	.955	-1	1	9	13	1	816.25494		281.367	.3371E-03	1.021
-1	0	2	15	2	815.97867	46	163.674	.1613E-01	.961	-1	0	2	4	0	816.25555		21.040	.2212E-02	.998
-1	0	2	15	0	815.98400		163.669	.4029E-02	.960	-1	0	2	3	2	816.26358	240*	15.856	.6541E-02	.999
-1	0	2	14	2	816.01659	25	144.230	.1666E-01	.966	-1	0	2	3	0	816.26528		15.851	.1635E-02	.999
-1	0	2	14	0	816.02147		144.225	.4161E-02	.965	-1	0	2	2	2	816.27097		11.965	.3813E-02	1.000
-1	0	2	13	2	816.05186	15	126.081	.1701E-01	.971	-1	0	2	2	0	816.27257		11.960	.9533E-03	1.000
-1	0	2	13	0	816.05632		126.076	.4248E-02	.970	-1	1	10	15	2	816.28177		357.250	.5725E-03	1.024
1	-1	11	27	3	816.06519		733.568	.7229E-04	.958	-1	1	10	15	0	816.29292		357.244	.1431E-03	1.024
1	-1	11	27	1	816.06889		733.563	.2892E-03	.958	-1	-1	1	2	3	816.31558		5.913	.8836E-03	1.000
-1	0	2	12	2	816.08451	35	109.227	.1714E-01	.975	-1	-1	1	2	1	816.31712	-31	5.908	.3535E-02	1.000
-1	0	2	12	0	816.08857		109.222	.4284E-02	.975	-1	1	11	17	3	816.31875		442.323	.1123E-03	1.026
-1	0	2	11	2	816.11456	122	93.668	.1704E-01	.979	-1	1	11	17	1	816.32597		442.317	.4496E-03	1.027
-1	0	2	11	0	816.11825		93.663	.4259E-02	.979	1	-1	0	4	2	816.35168		12.973	.1708E-02	1.000
-1	0	2	10	2	816.14204	44	79.405	.1669E-01	.983	1	-1	0	4	0	816.35322	46	12.968	.3415E-02	1.000
-1	0	2	10	0	816.14537		79.399	.4168E-02	.982	1	-1	13	31	3	816.35591		982.758	.2367E-04	.953
-1	0	2	9	2	816.16695	7	66.437	.1607E-01	.986	1	-1	13	31	1	816.35996		982.752	.9458E-04	.952
-1	0	2	9	0	816.16997		66.432	.4017E-02	.986	-1	1	12	19	2	816.36713		536.576	.1648E-03	1.030
-1	0	2	8	2	816.18933	23	54.766	.1518E-01	.989	-1	1	12	19	0	816.39103		536.570	.3296E-03	1.030
-1	0	2	8	0	816.19205		54.761	.3795E-02	.989	1	-1	1	6	3	816.41644		29.260	.8641E-03	.986
1	-1	12	29	2	816.20763		853.589	.8468E-04	.955	1	-1	1	6	1	816.41819	-89	29.255	.3457E-02	.986

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i	ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	1	13	21	3	816.42014		640.008	.5666E-04	1.032	1	-1	10	24	0	817.28957		590.340	.1249E-03	.963
-1	1	13	21	1	816.43253		640.003	.2269E-03	1.033	-1	0	1	33	3	817.34575		728.479	.3807E-03	.654
1	-1	2	8	2	816.48010	-5	54.766	.3431E-02	.985	-1	0	1	33	1	817.35288	-70	728.473	.1516E-02	.651
1	-1	2	8	0	816.48221		54.761	.8578E-03	.985	-1	1	18	31	0	817.38363		1294.415	.1166E-04	.807
-1	1	14	23	2	816.48602		752.602	.1472E-03	1.036	1	-1	11	26	3	817.42197		698.640	.7828E-04	.961
1	-1	14	33	2	816.51439		1121.055	.5044E-04	.950	1	-1	11	26	1	817.42548		698.635	.3128E-03	.960
1	-1	14	33	0	816.51981		1121.050	.1260E-04	.949	-1	0	1	32	3	817.44683		685.815	.4676E-03	.672
-1	1	14	23	0	816.53997		752.597	.3670E-04	1.033	-1	0	1	32	1	817.45383	-16	685.810	.1862E-02	.669
1	-1	3	10	3	816.55099	-7	89.495	.3239E-02	.983	-1	1	7	10	3	817.48548		170.182	.2450E-03	1.016
1	-1	3	10	1	816.55304		89.489	.1619E-02	.983	-1	1	6	8	2	817.48675		119.325	.4589E-03	1.013
-1	1	15	25	3	816.55456		874.356	.9020E-04	1.038	-1	1	7	10	1	817.48844	362*	170.177	.9809E-03	1.017
-1	1	15	25	1	816.57576		874.350	.4514E-04	1.039	-1	1	6	8	0	817.48999	423*	119.319	.9187E-03	1.014
1	-1	4	12	2	816.63154	26	133.436	.2897E-02	.980	-1	1	8	12	2	817.49421	-215*	230.245	.9311E-03	1.019
1	-1	4	12	0	816.63416		133.431	.7243E-03	.980	-1	1	5	6	3	817.49507		77.684	.1801E-03	1.010
-1	1	16	27	2	816.63823		1005.249	.5245E-04	1.042	-1	1	5	6	1	817.49706	-500*	77.679	.7212E-03	1.011
1	-1	15	35	3	816.67838		1268.476	.2563E-04	.947	-1	1	8	12	0	817.50049		230.240	.2330E-03	1.020
1	-1	15	35	1	816.68277		1268.470	.1282E-04	.947	-1	1	9	14	3	817.50944		299.516	.8086E-03	1.022
1	-1	5	14	3	816.71911		186.593	.6149E-03	.978	-1	1	4	4	2	817.51303		45.258	.3925E-03	1.007
1	-1	5	14	1	816.72151	-25	186.588	.2457E-02	.977	-1	1	9	14	1	817.51424		299.510	.4047E-03	1.023
-1	1	17	29	3	816.72164		1145.278	.7227E-05	1.045	-1	1	4	4	0	817.51495		45.253	.9823E-04	1.008
-1	1	17	29	1	816.75771		1145.272	.2888E-04	1.044	-1	1	10	16	2	817.53530		377.980	.6510E-03	1.025
-1	1	16	27	0	816.77898		1005.243	.1283E-04	1.019	-1	0	1	31	3	817.54388		644.436	.5696E-03	.690
1	-1	6	16	2	816.81644		248.954	.9899E-03	.975	-1	1	10	16	0	817.54807		377.974	.1629E-03	1.026
1	-1	6	16	0	816.81960	134	248.949	.1978E-02	.974	-1	0	1	31	1	817.55073	-67	644.431	.2269E-02	.687
-1	1	18	31	2	816.82348		1294.421	.7567E-05	1.048	-1	1	11	18	3	817.56678		465.637	.1225E-03	1.028
1	-1	7	18	3	816.92054		320.520	.3783E-03	.972	1	-1	12	28	2	817.56858		816.090	.9340E-04	.958
-1	1	19	33	3	816.92093		1452.673	.1883E-05	1.051	1	-1	12	28	0	817.57326		816.084	.1866E-03	.957
1	-1	7	18	1	816.92332	-56	320.514	.1513E-02	.972	-1	1	11	18	1	817.57484		465.632	.4905E-03	1.029
-1	1	19	33	1	816.98231		1452.667	.7511E-05	1.048	-1	1	12	20	2	817.60991		562.472	.1733E-03	1.031
1	-1	8	20	2	817.03451	-41	401.276	.1099E-02	.969	-1	-1	1	1	3	817.61521		3.319	.5976E-03	1.000
1	-1	8	20	0	817.03819		401.271	.2748E-03	.969	-1	-1	1	1	1	817.61672	-62	3.313	.2390E-02	1.000
-1	0	1	35	3	817.13121		817.656	.2461E-03	.617	-1	1	12	20	0	817.63644		562.467	.3467E-03	1.031
-1	0	1	35	1	817.13858		817.651	.9796E-03	.614	-1	0	1	30	3	817.63697		604.343	.6874E-03	.707
1	-1	9	22	3	817.15496	-14	491.224	.7596E-03	.966	-1	0	1	30	1	817.64366	-118	604.337	.2742E-02	.705
1	-1	9	22	1	817.15811		491.218	.3798E-03	.966	-1	1	13	22	3	817.65726		668.484	.5785E-04	1.034
-1	0	1	34	3	817.24056		772.426	.3076E-03	.636	1	-1	0	3	2	817.66148		7.785	.1170E-02	1.000
-1	0	1	34	1	817.24782	-94	772.420	.1224E-02	.633	1	-1	0	3	0	817.66302	30	7.779	.2339E-02	1.000
1	-1	10	24	2	817.28537		590.345	.4996E-03	.963	-1	1	13	22	1	817.67086		668.479	.2316E-03	1.035

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	1	14	24	2	817.71785		783.655	.1461E-03	1.037
1	-1	13	30	3	817.72107		942.692	.2655E-04	.955
1	-1	13	30	1	817.72493		942.686	.1062E-03	.955
1	-1	1	5	3	817.72575		21.478	.6500E-03	.990
-1	0	1	29	3	817.72617		565.535	.8242E-03	.725
1	-1	1	5	1	817.72742	184*	21.473	.2600E-02	.990
-1	0	1	29	1	817.73268		565.530	.3283E-02	.722
-1	1	14	24	0	817.77573		783.649	.3642E-04	1.034
-1	1	15	26	3	817.78057		907.982	.8741E-04	1.040
1	-1	2	7	2	817.79417	19	44.391	.2763E-02	.988
1	-1	2	7	0	817.79613		44.385	.6907E-03	.988
-1	1	15	26	1	817.80339		907.976	.4375E-04	1.041
-1	0	1	28	3	817.81154		528.014	.9789E-03	.742
-1	0	1	28	1	817.81787	-80	528.009	.3905E-02	.740
-1	1	16	28	2	817.85890		1041.445	.4963E-04	1.043
1	-1	3	9	3	817.86983	-53	76.527	.2751E-02	.986
1	-1	3	9	1	817.87176		76.522	.1374E-02	.985
1	-1	14	32	2	817.88362		1078.426	.5755E-04	.952
1	-1	14	32	0	817.88876		1078.420	.1439E-04	.952
-1	0	1	27	3	817.89316		491.781	.1152E-02	.758
-1	0	1	27	1	817.89930	-64	491.776	.4595E-02	.756
-1	1	17	30	3	817.93633		1184.040	.6694E-05	1.046
1	-1	4	11	2	817.95503	18	117.878	.2569E-02	.983
1	-1	4	11	0	817.95743		117.873	.6417E-03	.982
-1	0	1	26	3	817.97111		456.836	.1346E-02	.775
-1	1	17	30	1	817.97441		1184.034	.2678E-04	1.046
-1	0	1	26	1	817.97705	-79	456.830	.5370E-02	.773
-1	1	16	28	0	818.00258		1041.439	.1216E-04	1.022
-1	1	18	32	2	818.03278		1335.746	.6875E-05	1.050
-1	0	1	25	3	818.04546		423.180	.1558E-02	.791
1	-1	5	13	3	818.04726		168.446	.5648E-03	.980
1	-1	5	13	1	818.04951	26	168.440	.2259E-02	.980
-1	0	1	25	1	818.05118	-140	423.174	.6216E-02	.789
1	-1	15	34	3	818.05171		1223.287	.2974E-04	.949
1	-1	15	34	1	818.05591		1223.281	.1487E-04	.949
-1	0	1	24	3	818.11627		390.813	.1786E-02	.806
-1	0	1	24	1	818.12178	-96	390.807	.7127E-02	.804
-1	1	19	34	3	818.12406		1496.556	.1677E-05	1.052
1	-1	6	15	2	818.14913		228.219	.9381E-03	.977
1	-1	6	15	0	818.15205	147	228.213	.1876E-02	.977
-1	0	1	23	3	818.18363		359.736	.2031E-02	.821
-1	1	19	34	1	818.18754		1496.550	.6695E-05	1.050
-1	0	1	23	1	818.18891	-61	359.730	.8115E-02	.820
-1	0	1	22	3	818.24760		329.949	.2290E-02	.836
-1	0	1	22	1	818.25265	-26	329.944	.9138E-02	.834
1	-1	7	17	3	818.25780		297.199	.3686E-03	.974
1	-1	7	17	1	818.26041		297.193	.1474E-02	.974
-1	0	1	21	3	818.30825		301.454	.2557E-02	.850
-1	0	1	21	1	818.31307	-66	301.449	.1020E-01	.848
-1	0	1	20	3	818.36564		274.250	.2826E-02	.863
-1	0	1	20	1	818.37023	-60	274.245	.1129E-01	.862
1	-1	8	19	2	818.37619	394*	375.372	.1098E-02	.971
1	-1	8	19	0	818.37962		375.366	.2746E-03	.971
-1	0	1	19	3	818.41986		248.339	.3097E-02	.876
-1	0	1	19	1	818.42421	-81	248.334	.1237E-01	.875
-1	0	1	18	3	818.47094		223.720	.3358E-02	.888
-1	0	1	18	1	818.47507	-77	223.715	.1342E-01	.887
1	-1	9	21	3	818.50111		462.737	.7767E-03	.968
1	-1	9	21	1	818.50408		462.732	.3884E-03	.968
-1	0	1	17	3	818.51897		200.394	.3608E-02	.900
-1	0	1	17	1	818.52287	-73	200.389	.1441E-01	.899
-1	1	18	32	0	818.54143		1335.740	.1120E-04	.855
-1	0	1	16	3	818.56400		178.362	.3834E-02	.911
-1	0	1	16	1	818.56767	-67	178.357	.1532E-01	.910
-1	0	1	15	3	818.60608		157.624	.4033E-02	.922
-1	0	1	15	1	818.60953	-72	157.618	.1611E-01	.921
1	-1	10	23	2	818.63584		559.281	.5220E-03	.965
1	-1	10	23	0	818.63977		559.275	.1305E-03	.965
-1	0	1	14	3	818.64526		138.180	.4188E-02	.931
-1	0	1	14	1	818.64850	-84	138.174	.1675E-01	.931
-1	0	1	13	3	818.68160		120.030	.4306E-02	.941
-1	0	1	13	1	818.68463	-16	120.025	.1720E-01	.940
-1	0	1	12	3	818.71515		103.176	.4365E-02	.949
-1	0	1	12	1	818.71798	-70	103.171	.1746E-01	.949
-1	0	1	11	3	818.74594		87.617	.4369E-02	.957
-1	0	1	11	1	818.74859	-64	87.612	.1747E-01	.957

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	1	7	11	3	818.75206		184.443	.3154E-03	1.018
-1	1	7	11	1	818.75537		184.438	.1262E-02	1.018
-1	1	8	13	2	818.75560		247.096	.1119E-02	1.021
-1	1	6	9	2	818.75860		130.995	.6527E-03	1.015
-1	1	6	9	0	818.76239	477*	130.989	.1305E-02	1.015
-1	1	8	13	0	818.76287		247.090	.2800E-03	1.022
-1	1	9	15	3	818.76543		318.954	.9227E-03	1.024
-1	1	9	15	1	818.77080		318.948	.4614E-03	1.024
-1	1	5	7	3	818.77203		86.762	.3027E-03	1.012
-1	0	1	10	3	818.77403		73.353	.4307E-02	.964
-1	1	5	7	1	818.77423		86.757	.1211E-02	1.012
-1	0	1	10	1	818.77650	-55	73.348	.1723E-01	.964
1	-1	11	25	3	818.77680		665.000	.8348E-04	.963
1	-1	11	25	1	818.78013		664.994	.3336E-03	.962
-1	1	10	17	2	818.78605		400.003	.7126E-03	1.027
-1	1	4	5	2	818.79514		51.743	.9543E-03	1.009
-1	1	4	5	0	818.79732		51.738	.2386E-03	1.009
-1	0	1	9	3	818.79944		60.386	.4181E-02	.971
-1	1	10	17	0	818.80047		399.998	.1783E-03	1.028
-1	0	1	9	1	818.80174	-46	60.381	.1673E-01	.971
-1	1	11	19	3	818.81198		490.244	.1295E-03	1.030
-1	1	11	19	1	818.82090		490.239	.5185E-03	1.031
-1	0	1	8	3	818.82221		48.714	.3985E-02	.977
-1	0	1	8	1	818.82436	-47	48.709	.1594E-01	.977
-1	1	3	3	3	818.82545		25.948	.5394E-03	1.006
-1	1	3	3	1	818.82713		25.942	.2697E-03	1.006
-1	0	1	7	3	818.84237		38.339	.3717E-02	.982
-1	0	1	7	1	818.84439	-51	38.334	.1487E-01	.982
-1	1	12	21	2	818.84982		589.660	.1777E-03	1.033
-1	0	1	6	3	818.85995		29.260	.3384E-02	.987
-1	0	1	6	1	818.86185	3	29.255	.1354E-01	.987
-1	0	1	5	3	818.87497		21.478	.2986E-02	.991
-1	0	1	5	1	818.87677	-31	21.473	.1195E-01	.991
-1	1	12	21	0	818.87897		589.655	.3555E-03	1.033
-1	0	1	4	3	818.88746		14.993	.2530E-02	.994
-1	0	1	4	1	818.88917	-7	14.987	.1012E-01	.994
-1	1	13	23	3	818.89147		698.250	.5774E-04	1.036
-1	0	1	3	3	818.89743		9.804	.2024E-02	.997

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	0	1	3	1	818.89907	-40	9.799	.8096E-02	.997
-1	0	1	2	3	818.90490		5.913	.1476E-02	.999
-1	1	13	23	1	818.90627		698.245	.2312E-03	1.037
-1	0	1	2	1	818.90648	153	5.908	.5905E-02	.999
-1	0	1	1	3	818.90987		3.319	.8979E-03	1.000
-1	0	1	1	1	818.91142		3.313	.3592E-02	1.000
1	-1	12	27	2	818.92763		779.878	.1015E-03	.960
1	-1	12	27	0	818.93204		779.872	.2029E-03	.959
-1	1	14	25	2	818.94673		815.996	.1423E-03	1.039
1	-1	0	2	2	818.96710		3.893	.5970E-03	1.000
1	-1	0	2	0	818.96863		3.888	.1194E-02	1.000
-1	1	15	27	3	819.00359		942.895	.8321E-04	1.042
-1	1	14	25	0	819.00835		815.991	.3547E-04	1.036
-1	1	15	27	1	819.02800		942.889	.4161E-04	1.042
1	-1	1	4	3	819.03270		14.993	.4213E-03	.993
1	-1	1	4	1	819.03431	-39	14.987	.1685E-02	.993
-1	1	16	29	2	819.07654		1078.927	.4626E-04	1.045
1	-1	13	29	3	819.08437		903.911	.2940E-04	.957
1	-1	13	29	1	819.08805		903.905	.1176E-03	.957
1	-1	2	6	2	819.10593	12	35.312	.2031E-02	.991
1	-1	2	6	0	819.10774		35.307	.5078E-03	.991
-1	1	17	31	3	819.14794		1224.087	.6115E-05	1.048
1	-1	3	8	3	819.18637	-22	64.856	.2192E-02	.988
-1	1	17	31	1	819.18795		1224.081	.2446E-04	1.048
1	-1	3	8	1	819.18820		64.851	.1096E-02	.988
-1	1	16	29	0	819.22268		1078.921	.1134E-04	1.025
-1	1	18	33	2	819.23895		1378.354	.6155E-05	1.051
1	-1	14	31	2	819.25103		1037.079	.6489E-04	.954
1	-1	14	31	0	819.25590		1037.073	.1622E-04	.954
1	-1	4	10	2	819.27626	-2	103.615	.2172E-02	.985
1	-1	4	10	0	819.27848		103.610	.5430E-03	.985
1	-1	5	12	3	819.37320		151.593	.5001E-03	.982
1	-1	5	12	1	819.37532	-19	151.588	.2000E-02	.982
1	-1	15	33	3	819.42327		1179.379	.3412E-04	.951
1	-1	15	33	1	819.42728		1179.373	.1706E-04	.951
1	-1	6	14	2	819.47965		208.778	.8627E-03	.979
1	-1	6	14	0	819.48234	150	208.772	.1725E-02	.979
1	-1	7	16	3	819.59292		275.171	.3502E-03	.976

ΔK	ΔJ	K	J	σ	ν_i	o−c	E''_i	S_i	W_i
1	-1	7	16	1	819.59537	-57	275.165	.1401E-02	.976
1	-1	16	35	2	819.60544		1330.789	.1710E-04	.948
1	-1	16	35	0	819.61073		1330.783	.4276E-05	.948
-1	1	18	33	0	819.70602		1378.348	.1047E-04	.893
1	-1	8	18	2	819.71579	-56	350.759	.1074E-02	.973
1	-1	8	18	0	819.71897		350.754	.2684E-03	.973
1	-1	9	20	3	819.84521	6	435.543	.7790E-03	.970
1	-1	9	20	1	819.84801		435.537	.3895E-03	.970
1	-1	10	22	2	819.98430		529.506	.5365E-03	.968
1	-1	10	22	0	819.98798		529.501	.1340E-03	.967
-1	1	8	14	2	820.01425	389*	265.240	.1279E-02	1.023
-1	1	7	12	3	820.01592		199.999	.3792E-03	1.020
-1	1	9	16	3	820.01863	-49	339.685	.1013E-02	1.026
-1	1	7	12	1	820.01962	-149	199.994	.1517E-02	1.020
-1	1	8	14	0	820.02256		265.235	.3202E-03	1.024
-1	1	9	16	1	820.02460		339.680	.5065E-03	1.026
-1	1	6	10	2	820.02778		143.960	.8386E-03	1.017
-1	1	6	10	0	820.03216	97	143.955	.1677E-02	1.017
-1	1	10	18	2	820.03397		423.320	.7559E-03	1.029
-1	1	5	8	3	820.04636		97.137	.4279E-03	1.014
-1	1	5	8	1	820.04879	-32	97.131	.1711E-02	1.014
-1	1	10	18	0	820.05008		423.314	.1892E-03	1.030
-1	1	11	20	3	820.05431		516.143	.1333E-03	1.032
-1	1	11	20	1	820.06411		516.137	.5333E-03	1.032
-1	1	4	6	2	820.07466	-29	59.525	.1581E-02	1.011
-1	1	4	6	0	820.07715		59.520	.3952E-03	1.011
-1	1	12	22	2	820.08683		618.139	.1782E-03	1.035
-1	1	3	4	3	820.11005	-67	31.136	.1267E-02	1.008
-1	1	3	4	1	820.11184		31.131	.6334E-03	1.008
-1	1	12	22	0	820.11857		618.134	.3564E-03	1.035
-1	1	13	24	3	820.12274		729.306	.5649E-04	1.038
1	-1	11	24	3	820.12966		632.649	.8762E-04	.965
1	-1	11	24	1	820.13281		632.643	.3505E-03	.965
-1	1	13	24	1	820.13875		729.301	.2262E-03	1.039
-1	1	2	2	2	820.15491	94	11.965	.7704E-03	1.005
-1	1	2	2	0	820.15661		11.960	.1926E-03	1.005
-1	1	14	26	2	820.17262		849.626	.1361E-03	1.041
-1	1	15	28	3	820.22359		979.096	.7795E-04	1.044

ΔK	ΔJ	K	J	σ	ν_i	o−c	E''_i	S_i	W_i
-1	1	14	26	0	820.23780		849.621	.3393E-04	1.038
-1	1	15	28	1	820.24956		979.090	.3897E-04	1.044
1	-1	12	26	2	820.28475		744.953	.1088E-03	.962
1	-1	12	26	0	820.28890		744.947	.2174E-03	.961
-1	1	16	30	2	820.29111		1117.695	.4248E-04	1.047
1	-1	1	3	3	820.33724		9.804	.1929E-03	.996
1	-1	1	3	1	820.33881	-92	9.799	.7717E-03	.996
-1	1	17	32	3	820.35645		1265.418	.5509E-05	1.050
-1	1	17	32	1	820.39830		1265.412	.2204E-04	1.050
1	-1	2	5	2	820.41532	28	27.530	.1271E-02	.993
1	-1	2	5	0	820.41702		27.525	.3176E-03	.993
-1	1	16	30	0	820.43930		1117.689	.1043E-04	1.028
-1	1	18	34	2	820.44196		1422.244	.5446E-05	1.053
1	-1	13	28	3	820.44578		866.415	.3213E-04	.959
1	-1	13	28	1	820.44928		866.409	.1285E-03	.959
1	-1	3	7	3	820.50059	-39	54.481	.1587E-02	.990
1	-1	3	7	1	820.50232		54.476	.7936E-03	.990
1	-1	4	9	2	820.59522	-3	90.649	.1720E-02	.987
1	-1	4	9	0	820.59726		90.643	.4301E-03	.987
1	-1	14	30	2	820.61659		997.017	.7224E-04	.956
1	-1	14	30	0	820.62119		997.011	.1806E-04	.956
1	-1	5	11	3	820.69689		136.035	.4220E-03	.984
1	-1	5	11	1	820.69888	121	136.030	.1688E-02	.984
1	-1	15	32	3	820.79302		1136.754	.3867E-04	.953
1	-1	15	32	1	820.79685		1136.748	.1934E-04	.953
1	-1	6	13	2	820.80797		190.631	.7641E-03	.981
1	-1	6	13	0	820.81044	120	190.625	.1528E-02	.981
-1	1	18	34	0	820.87499		1422.238	.9542E-05	.922
1	-1	7	15	3	820.92587		254.436	.3226E-03	.978
1	-1	7	15	1	820.92818	21	254.431	.1290E-02	.978
1	-1	16	34	2	820.97923		1285.605	.1973E-04	.950
1	-1	16	34	0	820.98426		1285.599	.4932E-05	.950
1	-1	8	17	2	821.05326	84	327.439	.1023E-02	.975
1	-1	8	17	0	821.05621		327.434	.2557E-03	.975
1	0	0	35	2	821.09668		815.640	.8098E-03	1.000
1	0	0	34	2	821.12311		770.409	.9817E-03	1.000
1	0	0	35	0	821.12573		815.634	.1620E-02	1.000
1	0	0	33	2	821.14875		726.462	.1182E-02	1.000

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	0	0	34	0	821.15097		770.403	.1963E-02	1.000
1	0	0	32	2	821.17360		683.798	.1412E-02	1.000
1	0	0	33	0	821.17541		726.456	.2363E-02	1.000
1	-1	9	19	3	821.18722	-356*	409.640	.7650E-03	.973
1	-1	9	19	1	821.18986		409.634	.3821E-03	.972
1	0	0	31	2	821.19767		642.419	.1675E-02	1.000
1	0	0	32	0	821.19907		683.792	.2824E-02	1.000
1	0	0	30	2	821.22094		602.325	.1973E-02	1.000
1	0	0	31	0	821.22195		642.413	.3351E-02	1.000
1	0	0	29	2	821.24343		563.518	.2307E-02	1.000
1	0	0	30	0	821.24405		602.320	.3946E-02	1.000
1	0	0	28	2	821.26514		525.997	.2677E-02	1.000
1	0	0	29	0	821.26538		563.512	.4613E-02	1.000
-1	1	9	17	3	821.26901		361.710	.1078E-02	1.028
-1	1	8	15	2	821.27012		284.679	.1408E-02	1.025
-1	1	9	17	1	821.27561		361.705	.5389E-03	1.028
-1	1	7	13	3	821.27704		216.850	.4340E-03	1.022
-1	1	10	19	2	821.27905		447.929	.7812E-03	1.031
-1	1	8	15	0	821.27951		284.674	.3523E-03	1.026
-1	1	7	13	1	821.28116		216.845	.1736E-02	1.022
1	0	0	28	0	821.28594		525.991	.5353E-02	1.000
1	0	0	27	2	821.28607		489.763	.3082E-02	1.000
-1	1	11	21	3	821.29376		543.333	.1342E-03	1.034
-1	1	6	11	2	821.29427		158.222	.1008E-02	1.019
-1	1	10	19	0	821.29686		447.923	.1955E-03	1.032
-1	1	6	11	0	821.29929		158.216	.2015E-02	1.019
-1	1	11	21	1	821.30444		543.328	.5369E-03	1.034
1	0	0	27	0	821.30573		489.758	.6165E-02	1.000
1	0	0	26	2	821.30623		454.818	.3523E-02	1.000
-1	1	5	9	3	821.31803		108.807	.5477E-03	1.016
-1	1	5	9	1	821.32070		108.802	.2191E-02	1.016
-1	1	12	23	2	821.32091		647.908	.1751E-03	1.037
1	0	0	26	0	821.32477		454.812	.7046E-02	1.000
1	0	0	25	2	821.32561		421.161	.3995E-02	1.000
1	-1	10	21	2	821.33072		501.023	.5403E-03	.970
1	-1	10	21	0	821.33415		501.017	.1349E-03	.969
1	0	0	25	0	821.34306		421.156	.7990E-02	1.000
1	0	0	24	2	821.34423		388.794	.4495E-02	1.000

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	1	13	25	3	821.35104		761.651	.5431E-04	1.040
-1	1	4	7	2	821.35157		68.603	.2214E-02	1.013
-1	1	4	7	0	821.35439		68.598	.5534E-03	1.013
-1	1	12	23	0	821.35520		647.903	.3503E-03	1.037
1	0	0	24	0	821.36059		388.789	.8990E-02	1.000
1	0	0	23	2	821.36208		357.717	.5018E-02	1.000
-1	1	13	25	1	821.36825		761.646	.2172E-03	1.040
1	0	0	23	0	821.37738		357.712	.1004E-01	1.000
1	0	0	22	2	821.37916		327.931	.5555E-02	1.000
-1	1	3	5	3	821.39207		37.621	.2053E-02	1.010
1	0	0	22	0	821.39343		327.925	.1111E-01	1.000
-1	1	3	5	1	821.39398		37.616	.1027E-02	1.010
1	0	0	21	2	821.39548		299.435	.6100E-02	1.000
-1	1	14	27	2	821.39550		884.544	.1281E-03	1.043
1	0	0	21	0	821.40875		299.430	.1220E-01	1.000
1	0	0	20	2	821.41104		272.232	.6641E-02	1.000
1	0	0	20	0	821.42333		272.226	.1328E-01	1.000
1	0	0	19	2	821.42584		246.320	.7168E-02	1.000
1	0	0	19	0	821.43719		246.315	.1434E-01	1.000
1	0	0	14	2	821.43773		136.161	.9119E-02	1.000
1	0	0	18	2	821.43989		221.701	.7668E-02	1.000
-1	1	15	29	3	821.44054		1016.583	.7195E-04	1.046
-1	1	2	3	2	821.44204		15.856	.1707E-02	1.007
-1	1	2	3	0	821.44388		15.851	.4268E-03	1.007
1	0	0	18	0	821.45033		221.696	.1534E-01	1.000
1	0	0	17	2	821.45319		198.375	.8127E-02	1.000
1	0	0	17	0	821.46275		198.370	.1625E-01	1.000
-1	1	14	27	0	821.46405		884.538	.3195E-04	1.040
1	0	0	16	2	821.46574		176.343	.8532E-02	1.000
-1	1	15	29	1	821.46803		1016.577	.3598E-04	1.046
1	0	0	16	0	821.47445		176.338	.1706E-01	1.000
1	0	0	15	2	821.47753		155.605	.8867E-02	1.000
1	-1	11	23	3	821.48051		601.587	.9037E-04	.967
1	-1	11	23	1	821.48350		601.581	.3615E-03	.967
1	0	0	15	0	821.48544		155.599	.1773E-01	1.000
1	0	0	14	0	821.49573		136.155	.1824E-01	1.000
1	0	0	13	2	821.49889		118.011	.9276E-02	1.000
-1	1	1	1	3	821.49919		3.319	.3015E-03	1.004

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	1	1	1	1	821.50077		3.313	.1206E-02	1.004
-1	1	16	31	2	821.50258		1157.747	.3848E-04	1.049
1	0	0	13	0	821.50531		118.006	.1855E-01	1.000
1	0	0	12	2	821.50845		101.157	.9324E-02	1.000
1	0	0	12	0	821.51420		101.151	.1865E-01	1.000
1	0	0	11	2	821.51727		85.598	.9254E-02	1.000
1	0	0	11	0	821.52238		85.592	.1851E-01	1.000
1	0	0	10	2	821.52534		71.334	.9057E-02	1.000
1	0	0	10	0	821.52988		71.329	.1811E-01	1.000
1	0	0	9	2	821.53268		58.366	.8729E-02	1.000
1	0	0	9	0	821.53668		58.361	.1746E-01	1.000
1	0	0	8	2	821.53929		46.695	.8267E-02	1.000
1	0	0	8	0	821.54280		46.689	.1653E-01	1.000
1	0	0	7	2	821.54515		36.319	.7672E-02	1.000
1	0	0	7	0	821.54823		36.314	.1535E-01	1.000
1	0	0	6	2	821.55028		27.241	.6950E-02	1.000
1	0	0	6	0	821.55298		27.235	.1390E-01	1.000
1	0	0	5	2	821.55468		19.458	.6108E-02	1.000
1	0	0	5	0	821.55704		19.453	.1222E-01	1.000
1	0	0	4	2	821.55834		12.973	.5158E-02	1.000
1	0	0	4	0	821.56043		12.968	.1032E-01	1.000
1	0	0	3	2	821.56127		7.785	.4114E-02	1.000
-1	1	17	33	3	821.56183		1308.032	.4901E-05	1.052
1	0	0	3	0	821.56313		7.779	.8229E-02	1.000
1	0	0	2	2	821.56347		3.893	.2995E-02	1.000
1	0	0	1	2	821.56493		1.299	.1820E-02	1.000
1	0	0	2	0	821.56516		3.888	.5990E-02	1.000
1	0	0	1	0	821.56651		1.294	.3640E-02	1.000
-1	1	17	33	1	821.60543		1308.026	.1960E-04	1.052
1	-1	12	25	2	821.63990		711.316	.1147E-03	.964
1	-1	12	25	0	821.64379		711.310	.2295E-03	.964
-1	1	16	31	0	821.65245		1157.741	.9456E-05	1.031
1	-1	2	4	2	821.72232	236*	21.045	.5484E-03	.995
1	-1	2	4	0	821.72392		21.040	.1371E-03	.995
1	-1	13	27	3	821.80527		830.206	.3459E-04	.961
1	-1	13	27	1	821.80859		830.201	.1384E-03	.961
1	-1	3	6	3	821.81246	5	45.403	.9714E-03	.992
1	-1	3	6	1	821.81411		45.398	.4857E-03	.992
1	-1	4	8	2	821.91186	-6	78.978	.1234E-02	.989
1	-1	4	8	0	821.91375		78.972	.3084E-03	.989
1	-1	14	29	2	821.98027		958.240	.7934E-04	.958
1	-1	14	29	0	821.98462		958.234	.1983E-04	.958
1	-1	5	10	3	822.01830		121.773	.3329E-03	.986
1	-1	5	10	1	822.02018	-35	121.768	.1332E-02	.986
1	-1	6	12	2	822.13405		173.779	.6443E-03	.983
1	-1	6	12	0	822.13633	102	173.773	.1289E-02	.983
1	-1	15	31	3	822.16092		1095.412	.4328E-04	.955
1	-1	15	31	1	822.16458		1095.407	.2164E-04	.955
1	-1	7	14	3	822.25662		234.996	.2861E-03	.980
1	-1	7	14	1	822.25879	-101	234.991	.1144E-02	.980
1	-1	16	33	2	822.35122		1241.703	.2248E-04	.952
1	-1	16	33	0	822.35600		1241.697	.5621E-05	.952
1	-1	8	16	2	822.38857	87	305.413	.9447E-03	.977
1	-1	8	16	0	822.39130		305.407	.2362E-03	.977
-1	1	9	18	3	822.51654		385.029	.1118E-02	1.030
-1	1	10	20	2	822.52124		473.830	.7896E-03	1.033
-1	1	8	16	2	822.52319	-12	305.413	.1502E-02	1.027
-1	1	9	18	1	822.52379		385.023	.5590E-03	1.030
1	-1	9	18	3	822.52710	-487*	385.029	.7304E-03	.974
1	-1	9	18	1	822.52959		385.023	.3652E-03	.974
-1	1	11	22	3	822.53027		571.815	.1325E-03	1.036
-1	1	8	16	0	822.53370		305.407	.3760E-03	1.028
-1	1	7	14	3	822.53539		234.996	.4785E-03	1.024
-1	1	7	14	1	822.53995	-2	234.991	.1914E-02	1.024
-1	1	10	20	0	822.54078		473.824	.1976E-03	1.034
-1	1	11	22	1	822.54186		571.809	.5305E-03	1.037
1	-1	17	35	3	822.54682		1397.106	.2781E-05	.949
1	-1	17	35	1	822.55080		1397.100	.1112E-04	.949
-1	1	12	24	2	822.55202		678.967	.1692E-03	1.039
-1	1	6	12	2	822.55802		173.779	.1154E-02	1.021
-1	1	6	12	0	822.56373	22	173.773	.2310E-02	1.022
-1	1	13	26	3	822.57634		795.285	.5138E-04	1.042
-1	1	5	10	3	822.58700		121.773	.6567E-03	1.018
-1	1	12	24	0	822.58883		678.962	.3383E-03	1.039
-1	1	5	10	1	822.58995	-65	121.768	.2627E-02	1.018
-1	1	13	26	1	822.59474		795.279	.2057E-03	1.043

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	1	14	28	2	822.61534		920.749	.1189E-03	1.045
-1	1	4	8	2	822.62582	83	78.978	.2816E-02	1.015
-1	1	4	8	0	822.62902		78.972	.7041E-03	1.015
-1	1	15	30	3	822.65440		1055.355	.6552E-04	1.048
-1	1	3	6	3	822.67146	29	45.403	.2834E-02	1.012
-1	1	3	6	1	822.67352		45.398	.1417E-02	1.012
1	-1	10	20	2	822.67506		473.830	.5320E-03	.972
1	-1	10	20	0	822.67825		473.824	.1329E-03	.971
-1	1	15	30	1	822.68338		1055.349	.3276E-04	1.048
-1	1	14	28	0	822.68706		920.743	.2964E-04	1.042
-1	1	16	32	2	822.71092		1199.083	.3441E-04	1.051
-1	1	2	4	2	822.72660	23	21.045	.2673E-02	1.009
-1	1	2	4	0	822.72860		21.040	.6682E-03	1.009
-1	1	17	34	3	822.76404		1351.928	.4307E-05	1.054
-1	1	1	2	3	822.78881		5.913	.5983E-03	1.007
-1	1	1	2	1	822.79045		5.908	.2393E-02	1.007
-1	1	17	34	1	822.80930		1351.922	.1721E-04	1.053
1	-1	11	22	3	822.82933		571.815	.9140E-04	.969
1	-1	11	22	1	822.83215		571.809	.3652E-03	.968
-1	1	16	32	0	822.86215		1199.078	.8465E-05	1.034
1	0	1	35	3	822.87270		817.656	.5549E-03	1.383
1	0	1	35	1	822.88522	-120	817.651	.2221E-02	1.384
1	0	1	34	3	822.93776		772.426	.6634E-03	1.364
1	0	1	34	1	822.94964	-102	772.420	.2658E-02	1.366
1	-1	12	24	2	822.99306		678.967	.1189E-03	.966
1	-1	12	24	0	822.99671		678.962	.2375E-03	.965
1	0	1	33	3	823.00204		728.479	.7880E-03	1.346
1	0	1	33	1	823.01329	-72	728.473	.3157E-02	1.348
1	0	1	32	3	823.06547		685.815	.9290E-03	1.328
1	0	1	32	1	823.07611	-51	685.810	.3722E-02	1.330
1	-1	3	5	3	823.12193	-43	37.621	.4051E-03	.994
1	-1	3	5	1	823.12352		37.616	.2025E-03	.994
1	0	1	31	3	823.12797		644.436	.1087E-02	1.310
1	0	1	31	1	823.13803	-68	644.431	.4355E-02	1.312
1	-1	13	26	3	823.16280		795.285	.3666E-04	.963
1	-1	13	26	1	823.16595		795.279	.1466E-03	.963
1	0	1	30	3	823.18949		604.343	.1264E-02	1.293
1	0	1	30	1	823.19898	-61	604.337	.5059E-02	1.294

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	-1	4	7	2	823.22616	46	68.603	.7443E-03	.991
1	-1	4	7	0	823.22791		68.598	.1861E-03	.991
1	0	1	29	3	823.24993		565.535	.1457E-02	1.275
1	0	1	29	1	823.25887	-43	565.530	.5836E-02	1.277
1	0	1	28	3	823.30923		528.014	.1667E-02	1.258
1	0	1	28	1	823.31765	-57	528.009	.6681E-02	1.260
1	-1	5	9	3	823.33740		108.807	.2373E-03	.988
1	-1	5	9	1	823.33918		108.802	.9493E-03	.988
1	-1	14	28	2	823.34204		920.749	.8586E-04	.960
1	-1	14	28	0	823.34613		920.743	.2147E-04	.960
1	0	1	27	3	823.36732		491.781	.1896E-02	1.242
1	0	1	27	1	823.37522	-34	491.776	.7589E-02	1.243
1	0	1	26	3	823.42411		456.836	.2136E-02	1.225
1	0	1	26	1	823.43153	-45	456.830	.8560E-02	1.227
1	-1	6	11	2	823.45786		158.222	.5074E-03	.985
1	-1	6	11	0	823.45996	125	158.216	.1015E-02	.985
1	0	1	25	3	823.47953		423.180	.2391E-02	1.209
1	0	1	25	1	823.48648	-170	423.174	.9579E-02	1.211
1	-1	15	30	3	823.52695		1055.355	.4779E-04	.957
1	-1	15	30	1	823.53043		1055.349	.2389E-04	.957
1	0	1	24	3	823.53351		390.813	.2656E-02	1.194
1	0	1	24	1	823.54002	-36	390.807	.1063E-01	1.195
1	-1	7	13	3	823.58515		216.850	.2413E-03	.982
1	0	1	23	3	823.58597		359.736	.2927E-02	1.179
1	-1	7	13	1	823.58719		216.845	.9653E-03	.982
1	0	1	23	1	823.59205	-61	359.730	.1172E-01	1.180
1	0	1	22	3	823.63684		329.949	.3201E-02	1.165
1	0	1	22	1	823.64252	-57	329.944	.1282E-01	1.166
1	0	1	21	3	823.68605		301.454	.3472E-02	1.151
1	0	1	21	1	823.69135	-55	301.449	.1390E-01	1.152
1	-1	16	32	2	823.72138		1199.083	.2530E-04	.954
1	-1	8	15	2	823.72169		284.679	.8393E-03	.979
1	-1	8	15	0	823.72421		284.674	.2098E-03	.979
1	-1	16	32	0	823.72590		1199.078	.6324E-05	.954
1	0	1	20	3	823.73353		274.250	.3732E-02	1.137
1	0	1	20	1	823.73847	-59	274.245	.1494E-01	1.138
-1	1	10	21	2	823.76052		501.023	.7829E-03	1.035
-1	1	9	19	3	823.76120	-41	409.640	.1134E-02	1.032

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	1	11	23	3	823.76383		601.587	.1286E-03	1.038
-1	1	9	19	1	823.76911		409.634	.5677E-03	1.033
-1	1	8	17	2	823.77343	-157	327.439	.1563E-02	1.029
-1	1	11	23	1	823.77633		601.581	.5148E-03	1.039
1	0	1	19	3	823.77921		248.339	.3981E-02	1.124
-1	1	12	25	2	823.78015		711.316	.1608E-03	1.041
-1	1	10	21	0	823.78180		501.017	.1959E-03	1.036
1	0	1	19	1	823.78380	-49	248.334	.1594E-01	1.125
-1	1	8	17	0	823.78509		327.434	.3912E-03	1.030
-1	1	7	15	3	823.79094		254.436	.5119E-03	1.026
-1	1	7	15	1	823.79595	16	254.431	.2049E-02	1.027
-1	1	13	27	3	823.79860		830.206	.4791E-04	1.044
-1	1	13	27	1	823.81819		830.201	.1918E-03	1.045
-1	1	6	13	2	823.81902		190.631	.1273E-02	1.023
-1	1	12	25	0	823.81942		711.310	.3217E-03	1.041
1	0	1	18	3	823.82303		223.720	.4210E-02	1.112
-1	1	6	13	0	823.82545	109	190.625	.2549E-02	1.024
1	0	1	18	1	823.82730	-77	223.715	.1686E-01	1.113
-1	1	14	29	2	823.83211		958.240	.1088E-03	1.047
-1	1	5	11	3	823.85325		136.035	.7515E-03	1.020
-1	1	5	11	1	823.85649	32	136.030	.3009E-02	1.021
1	-1	9	17	3	823.86484		361.710	.6765E-03	.976
1	0	1	17	3	823.86492		200.394	.4411E-02	1.100
-1	1	15	31	3	823.86515		1095.412	.5891E-04	1.050
1	-1	9	17	1	823.86719		361.705	.3383E-03	.976
1	0	1	17	1	823.86889	-125	200.389	.1766E-01	1.101
-1	1	15	31	1	823.89558		1095.407	.2946E-04	1.050
-1	1	4	9	2	823.89738	-28	90.649	.3365E-02	1.017
-1	1	4	9	0	823.90101		90.643	.8420E-03	1.018
1	0	1	16	3	823.90483		178.362	.4581E-02	1.089
-1	1	14	29	0	823.90681		958.234	.2713E-04	1.044
1	0	1	16	1	823.90851	-39	178.357	.1834E-01	1.090
-1	1	16	33	2	823.91611		1241.703	.3041E-04	1.053
1	-1	17	34	3	823.92114		1351.928	.3187E-05	.951
1	-1	17	34	1	823.92494		1351.922	.1275E-04	.951
1	0	1	15	3	823.94269		157.624	.4713E-02	1.079
1	0	1	15	1	823.94611	34	157.618	.1887E-01	1.080
-1	1	3	7	3	823.94821		54.481	.3576E-02	1.015

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	1	3	7	1	823.95043		54.476	.1788E-02	1.015
1	0	1	14	3	823.97846		138.180	.4796E-02	1.069
1	0	1	14	1	823.98163	-82	138.174	.1920E-01	1.070
-1	1	2	5	2	824.00854		27.530	.3614E-02	1.012
-1	1	2	5	0	824.01075		27.525	.9034E-03	1.012
1	0	1	13	3	824.01207		120.030	.4831E-02	1.060
1	0	1	13	1	824.01502	-96	120.025	.1932E-01	1.060
1	-1	10	19	2	824.01729		447.929	.5098E-03	.973
1	-1	10	19	0	824.02025		447.923	.1274E-03	.973
1	0	1	12	3	824.04350		103.176	.4806E-02	1.051
1	0	1	12	1	824.04623	-53	103.171	.1924E-01	1.052
-1	1	16	33	0	824.06840		1241.697	.7481E-05	1.036
1	0	1	11	3	824.07267		87.617	.4726E-02	1.044
1	0	1	11	1	824.07522	-29	87.612	.1891E-01	1.044
-1	1	1	3	3	824.07586		9.804	.8847E-03	1.010
-1	1	1	3	1	824.07756	-263*	9.799	.3539E-02	1.010
1	0	1	10	3	824.09957		73.353	.4577E-02	1.036
1	0	1	10	1	824.10194	-52	73.348	.1832E-01	1.037
1	0	1	9	3	824.12414		60.386	.4367E-02	1.030
1	0	1	9	1	824.12635	-59	60.381	.1747E-01	1.030
1	0	1	8	3	824.14636		48.714	.4089E-02	1.024
1	1	0	1	2	824.14718		1.299	.1826E-02	1.000
1	0	1	8	1	824.14843	-43	48.709	.1636E-01	1.024
1	1	0	1	0	824.14871		1.294	.3652E-02	1.000
1	0	1	7	3	824.16618		38.339	.3742E-02	1.018
1	0	1	7	1	824.16813	-34	38.334	.1498E-01	1.019
1	-1	11	21	3	824.17607		543.333	.9036E-04	.971
1	-1	11	21	1	824.17873		543.328	.3611E-03	.970
1	0	1	6	3	824.18359		29.260	.3335E-02	1.014
1	0	1	6	1	824.18543	-39	29.255	.1334E-01	1.014
1	0	1	5	3	824.19856		21.478	.2861E-02	1.010
1	0	1	5	1	824.20031	-36	21.473	.1144E-01	1.010
1	0	1	4	3	824.21107		14.993	.2323E-02	1.007
1	0	1	4	1	824.21273	-35	14.987	.9290E-02	1.007
1	0	1	3	3	824.22109		9.804	.1710E-02	1.004
1	0	1	3	1	824.22270	-41	9.799	.6841E-02	1.004
1	0	1	2	3	824.22863		5.913	.9940E-03	1.002
1	0	1	2	1	824.23019	-75	5.908	.3976E-02	1.002

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	-1	12	23	2	824.34419		647.908	.1208E-03	.968
1	-1	12	23	0	824.34760		647.903	.2413E-03	.967
1	-1	13	25	3	824.51834		761.651	.3817E-04	.965
1	-1	13	25	1	824.52133		761.646	.1527E-03	.965
1	-1	4	6	2	824.53808		59.525	.3037E-03	.993
1	-1	4	6	0	824.53971		59.520	.7584E-04	.992
1	-1	5	8	3	824.65416		97.137	.1418E-03	.990
1	-1	5	8	1	824.65585		97.131	.5673E-03	.990
1	-1	14	27	2	824.70185		884.544	.9144E-04	.962
1	-1	14	27	0	824.70570		884.538	.2286E-04	.962
1	-1	6	10	2	824.77937		143.960	.3603E-03	.987
1	-1	6	10	0	824.78131	67	143.955	.7206E-03	.987
1	-1	15	29	3	824.89108		1016.583	.5198E-04	.959
1	-1	15	29	1	824.89439		1016.577	.2599E-04	.959
1	-1	7	12	3	824.91141		199.999	.1899E-03	.984
1	-1	7	12	1	824.91333	-132	199.994	.7597E-03	.984
-1	1	11	24	3	824.99441		632.649	.1228E-03	1.040
-1	1	10	22	2	824.99685		529.506	.7638E-03	1.038
-1	1	9	20	3	825.00294	50	435.543	.1129E-02	1.034
-1	1	12	26	2	825.00525		744.953	.1509E-03	1.044
-1	1	11	24	1	825.00782		632.643	.4917E-03	1.041
-1	1	9	20	1	825.01153		435.537	.5652E-03	1.035
-1	1	13	28	3	825.01779		866.415	.4408E-04	1.046
-1	1	10	22	0	825.01989		529.501	.1909E-03	1.038
-1	1	8	18	2	825.02079	0	350.759	.1593E-02	1.032
-1	1	8	18	0	825.03364		350.754	.3983E-03	1.032
-1	1	13	28	1	825.03856		866.409	.1765E-03	1.047
-1	1	7	16	3	825.04366		275.171	.5346E-03	1.029
-1	1	14	30	2	825.04577		997.017	.9847E-04	1.050
-1	1	12	26	0	825.04693		744.947	.3015E-03	1.043
-1	1	7	16	1	825.04915	-67	275.165	.2139E-02	1.029
1	-1	8	14	2	825.05260		265.240	.7088E-03	.981
1	-1	8	14	0	825.05492		265.235	.1772E-03	.981
-1	1	15	32	3	825.07275		1136.754	.5234E-04	1.052
-1	1	6	14	2	825.07723	-46	208.778	.1366E-02	1.026
-1	1	6	14	0	825.08441	107	208.772	.2732E-02	1.026
1	-1	16	31	2	825.08967		1157.747	.2808E-04	.956
1	-1	16	31	0	825.09395		1157.741	.7019E-05	.956

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	1	15	32	1	825.10459		1136.748	.2617E-04	1.052
-1	1	5	12	3	825.11674		151.593	.8306E-03	1.023
-1	1	16	34	2	825.11810		1285.605	.2660E-04	1.056
-1	1	5	12	1	825.12029	-102	151.588	.3322E-02	1.023
-1	1	14	30	0	825.12327		997.011	.2453E-04	1.046
-1	1	4	10	2	825.16624	-17	103.615	.3846E-02	1.020
-1	1	4	10	0	825.17031		103.610	.9616E-03	1.020
1	-1	9	16	3	825.20040	-209*	339.685	.6025E-03	.978
1	-1	9	16	1	825.20260		339.680	.3012E-03	.978
-1	1	3	8	3	825.22227	21	64.856	.4246E-02	1.017
-1	1	3	8	1	825.22468		64.851	.2123E-02	1.017
-1	1	16	34	0	825.27119		1285.599	.6543E-05	1.039
-1	1	2	6	2	825.28785	63	35.312	.4494E-02	1.015
-1	1	2	6	0	825.29029		35.307	.1124E-02	1.015
1	-1	17	33	3	825.29364		1308.032	.3605E-05	.953
1	-1	17	33	1	825.29727		1308.026	.1442E-04	.953
1	-1	10	18	2	825.35738		423.320	.4737E-03	.975
1	-1	10	18	0	825.36013		423.314	.1184E-03	.975
-1	1	1	4	3	825.36029		14.993	.1157E-02	1.014
-1	1	1	4	1	825.36208	-56	14.987	.4627E-02	1.014
1	1	0	2	2	825.43150		3.893	.2408E-02	1.000
1	1	0	2	0	825.43302	66	3.888	.4816E-02	1.000
1	0	2	35	2	825.44809	87	823.699	.1873E-02	1.202
1	0	2	35	0	825.46408		823.693	.4691E-03	1.204
1	-1	18	35	2	825.50696		1467.415	.3524E-05	.950
1	-1	18	35	0	825.51165		1467.409	.7048E-05	.950
1	-1	11	20	3	825.52071		516.143	.8691E-04	.972
1	-1	11	20	1	825.52322		516.137	.3477E-03	.972
1	0	2	34	2	825.52430	64	778.469	.2252E-02	1.192
1	0	2	34	0	825.53949		778.463	.5634E-03	1.193
1	0	2	33	2	825.59897	89	734.522	.2685E-02	1.181
1	0	2	33	0	825.61339		734.516	.6724E-03	1.183
1	0	2	32	2	825.67205	24	691.859	.3180E-02	1.171
1	0	2	32	0	825.68572	-49	691.853	.7958E-03	1.172
1	-1	12	22	2	825.69325		618.139	.1198E-03	.969
1	-1	12	22	0	825.69644		618.134	.2396E-03	.969
1	0	2	31	2	825.74349	41	650.481	.3740E-02	1.161
1	0	2	31	0	825.75643	-84	650.475	.9358E-03	1.162

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i	ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	0	2	30	2	825.81325	26	610.388	.4365E-02	1.151	-1	1	8	19	2	826.26526	49	375.372	.1592E-02	1.034
1	0	2	30	0	825.82547	39	610.382	.1092E-02	1.152	-1	1	12	27	0	826.27133		779.872	.2788E-03	1.045
1	-1	13	24	3	825.87185		729.306	.3895E-04	.967	-1	1	15	33	3	826.27718		1179.379	.4603E-04	1.055
1	-1	13	24	1	825.87469		729.301	.1556E-03	.966	-1	1	8	19	0	826.27932		375.366	.3981E-03	1.034
1	0	2	29	2	825.88126	41	571.580	.5057E-02	1.141	-1	1	7	17	3	826.29351		297.199	.5462E-03	1.031
1	0	2	29	0	825.89280	83	571.575	.1266E-02	1.143	-1	1	7	17	1	826.29949		297.193	.2185E-02	1.031
1	0	2	28	2	825.94750	37	534.060	.5819E-02	1.132	1	0	2	22	2	826.30489	-2	335.997	.1151E-01	1.083
1	0	2	28	0	825.95836	50	534.055	.1456E-02	1.133	-1	1	15	33	1	826.31038		1179.373	.2302E-04	1.055
1	-1	5	7	3	825.96855		86.762	.5699E-04	.991	1	0	2	22	0	826.31222	133	335.992	.2879E-02	1.084
1	-1	5	7	1	825.97016		86.757	.2280E-03	.991	-1	1	6	15	2	826.33261		228.219	.1429E-02	1.028
1	0	2	27	2	826.01190	3	497.827	.6645E-02	1.123	-1	1	14	31	0	826.33641		1037.073	.2191E-04	1.048
1	0	2	27	0	826.02212	88	497.822	.1663E-02	1.124	-1	1	6	15	0	826.34059	49	228.213	.2861E-02	1.029
1	-1	14	26	2	826.05969		849.626	.9566E-04	.964	1	0	2	21	2	826.35739	-9	307.503	.1254E-01	1.076
1	-1	14	26	0	826.06331		849.621	.2389E-04	.963	1	0	2	21	0	826.36421	159	307.497	.3135E-02	1.076
1	0	2	26	2	826.07443	6	462.883	.7536E-02	1.115	-1	1	5	13	3	826.37744		168.446	.8913E-03	1.025
1	0	2	26	0	826.08402	79	462.877	.1886E-02	1.116	1	-1	8	13	2	826.38125		247.096	.5581E-03	.983
1	-1	6	9	2	826.09855		130.995	.2138E-03	.988	-1	1	5	13	1	826.38132	22	168.440	.3569E-02	1.026
1	-1	6	9	0	826.10034		130.989	.4276E-03	.988	1	-1	8	13	0	826.38339		247.090	.1395E-03	.983
1	0	2	25	2	826.13503	16	429.227	.8471E-02	1.106	1	0	2	20	2	826.40777	-5	280.299	.1355E-01	1.069
1	0	2	25	0	826.14403	87	429.221	.2120E-02	1.107	1	0	2	20	0	826.41410		280.294	.3386E-02	1.069
1	0	2	24	2	826.19367	12	396.860	.9456E-02	1.098	-1	1	4	11	2	826.43234	218*	117.878	.4248E-02	1.023
1	0	2	24	0	826.20209	48	396.855	.2366E-02	1.099	-1	1	4	11	0	826.43690		117.873	.1062E-02	1.023
-1	1	11	25	3	826.22197		665.000	.1158E-03	1.043	1	0	2	19	2	826.45599	1	254.388	.1450E-01	1.062
-1	1	12	27	2	826.22730		779.878	.1395E-03	1.046	1	-1	16	30	2	826.45607		1117.695	.3070E-04	.958
-1	1	10	23	2	826.23021		559.281	.7329E-03	1.040	1	-1	16	30	0	826.46011		1117.689	.7675E-05	.958
-1	1	13	29	3	826.23389		903.911	.4009E-04	1.049	1	0	2	19	0	826.46186	159	254.383	.3629E-02	1.063
1	-1	7	11	3	826.23538		184.443	.1346E-03	.986	-1	1	3	9	3	826.49362	-129	76.527	.4836E-02	1.020
-1	1	11	25	1	826.23630		664.994	.4630E-03	1.043	-1	1	3	9	1	826.49623		76.522	.2418E-02	1.020
1	-1	7	11	1	826.23719		184.438	.5384E-03	.986	1	0	2	18	2	826.50201	-3	229.770	.1540E-01	1.056
-1	1	9	21	3	826.24175		462.737	.1106E-02	1.037	1	0	2	18	0	826.50744		229.764	.3854E-02	1.057
1	0	2	23	2	826.25030	20	365.783	.1047E-01	1.090	1	-1	9	15	3	826.53374		318.954	.5098E-03	.980
-1	1	9	21	1	826.25103		462.732	.5532E-03	1.037	1	-1	9	15	1	826.53582		318.948	.2549E-03	.980
1	-1	15	28	3	826.25326		979.096	.5564E-04	.961	1	0	2	17	2	826.54581	8	206.444	.1620E-01	1.050
-1	1	10	23	0	826.25499		559.275	.1832E-03	1.040	1	0	2	17	0	826.55082		206.439	.4053E-02	1.051
-1	1	13	29	1	826.25582		903.905	.1604E-03	1.049	-1	1	2	7	2	826.56447	17	44.391	.5291E-02	1.018
-1	1	14	31	2	826.25629		1037.079	.8796E-04	1.052	-1	1	2	7	0	826.56718		44.385	.1324E-02	1.019
1	-1	15	28	1	826.25641		979.090	.2782E-04	.961	1	0	2	16	2	826.58735	175	184.412	.1688E-01	1.045
1	0	2	23	0	826.25816	78	365.778	.2620E-02	1.091	1	0	2	16	0	826.59196		184.407	.4220E-02	1.045

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	0	2	15	2	826.62660	-14	163.674	.1739E-01	1.039
1	0	2	15	0	826.63085		163.669	.4352E-02	1.040
-1	1	1	5	3	826.64207		21.478	.1410E-02	1.019
-1	1	1	5	1	826.64396	-82	21.473	.5640E-02	1.019
1	0	2	14	2	826.66354	51	144.230	.1773E-01	1.034
1	-1	17	32	3	826.66428		1265.418	.4023E-05	.955
1	0	2	14	0	826.66743		144.225	.4438E-02	1.035
1	-1	17	32	1	826.66774		1265.412	.1609E-04	.955
1	-1	10	17	2	826.69530		400.003	.4231E-03	.977
1	-1	10	17	0	826.69784		399.998	.1058E-03	.977
1	0	2	13	2	826.69813	65	126.081	.1789E-01	1.030
1	0	2	13	0	826.70170		126.076	.4472E-02	1.030
1	1	0	3	2	826.71148		7.785	.2959E-02	1.000
1	1	0	3	0	826.71301	57	7.779	.5917E-02	1.000
1	0	2	12	2	826.73036	16	109.227	.1779E-01	1.025
1	0	2	12	0	826.73363		109.222	.4452E-02	1.026
1	0	2	11	2	826.76019	22	93.668	.1746E-01	1.021
1	0	2	11	0	826.76318		93.663	.4370E-02	1.022
1	0	2	10	2	826.78762	37	79.405	.1688E-01	1.018
1	0	2	10	0	826.79035		79.399	.4220E-02	1.018
1	0	2	9	2	826.81261	26	66.437	.1601E-01	1.015
1	0	2	9	0	826.81511		66.432	.4003E-02	1.015
1	1	1	1	3	826.82292		3.319	.1813E-02	.999
1	1	1	1	1	826.82448	-35	3.313	.7251E-02	.999
1	0	2	8	2	826.83516	28	54.766	.1485E-01	1.012
1	0	2	8	0	826.83745		54.761	.3712E-02	1.012
1	0	2	7	2	826.85524	26	44.391	.1338E-01	1.009
1	0	2	7	0	826.85735		44.385	.3346E-02	1.009
1	-1	11	19	3	826.86322		490.244	.8105E-04	.974
1	-1	11	19	1	826.86559		490.239	.3242E-03	.974
1	0	2	6	2	826.87284	34	35.312	.1162E-01	1.007
1	0	2	6	0	826.87479		35.307	.2904E-02	1.007
1	-1	18	34	2	826.88170		1422.244	.4009E-05	.952
1	-1	18	34	0	826.88615		1422.238	.8017E-05	.952
1	0	2	5	2	826.88795	15	27.530	.9510E-02	1.005
1	0	2	5	0	826.88976		27.525	.2377E-02	1.005
1	0	2	4	2	826.90056	4	21.045	.7013E-02	1.003
1	0	2	4	0	826.90225		21.040	.1753E-02	1.003

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	0	2	3	2	826.91066	35	15.856	.3992E-02	1.002
1	0	2	3	0	826.91225		15.851	.9979E-03	1.002
1	-1	12	21	2	827.04023		589.660	.1158E-03	.971
1	-1	12	21	0	827.04320		589.655	.2316E-03	.971
1	-1	13	23	3	827.22332		698.250	.3880E-04	.968
1	-1	13	23	1	827.22600		698.245	.1552E-03	.968
1	-1	6	8	2	827.41538		119.325	.8519E-04	.990
1	-1	14	25	2	827.41552		815.996	.9798E-04	.965
1	-1	6	8	0	827.41704		119.319	.1704E-03	.990
1	-1	14	25	0	827.41891		815.991	.2449E-04	.965
-1	1	12	28	2	827.44626		816.090	.1274E-03	1.048
-1	1	11	26	3	827.44647		698.640	.1076E-03	1.045
-1	1	13	30	3	827.44687		942.692	.3601E-04	1.051
-1	1	10	24	2	827.46056	51	590.345	.6934E-03	1.042
-1	1	11	26	1	827.46173		698.635	.4303E-03	1.045
-1	1	14	32	2	827.46365		1078.426	.7769E-04	1.054
-1	1	13	30	1	827.46994		942.686	.1440E-03	1.051
-1	1	9	22	3	827.47759	47	491.224	.1066E-02	1.039
-1	1	15	34	3	827.47840		1223.287	.4001E-04	1.057
-1	1	10	24	0	827.48708		590.340	.1734E-03	1.042
-1	1	9	22	1	827.48757		491.218	.5337E-03	1.040
-1	1	12	28	0	827.49256		816.084	.2546E-03	1.047
-1	1	8	20	2	827.50680	67	401.276	.1565E-02	1.036
-1	1	15	34	1	827.51292		1223.281	.2000E-04	1.057
-1	1	8	20	0	827.52209		401.271	.3916E-03	1.037
-1	1	7	18	3	827.54047		320.520	.5477E-03	1.033
-1	1	14	32	0	827.54620		1078.420	.1935E-04	1.050
-1	1	7	18	1	827.54696	1	320.514	.2193E-02	1.034
1	-1	7	10	3	827.55703		170.182	.7958E-04	.987
1	-1	7	10	1	827.55874		170.177	.3183E-03	.987
-1	1	6	16	2	827.58514	-19	248.954	.1465E-02	1.031
-1	1	6	16	0	827.59394	49	248.949	.2931E-02	1.031
1	-1	15	27	3	827.61347		942.895	.5849E-04	.963
1	-1	15	27	1	827.61646		942.889	.2922E-04	.962
-1	1	5	14	3	827.63531		186.593	.9349E-03	1.028
-1	1	5	14	1	827.63955	-46	186.588	.3740E-02	1.028
-1	1	4	12	2	827.69566	53	133.436	.4561E-02	1.025
-1	1	4	12	0	827.70074		133.431	.1141E-02	1.026

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	-1	8	12	2	827.70762		230.245	.3949E-03	.984
1	-1	8	12	0	827.70960		230.240	.9872E-04	.984
-1	1	3	10	3	827.76222	12	89.495	.5331E-02	1.023
-1	1	3	10	1	827.76505		89.489	.2665E-02	1.023
1	-1	16	29	2	827.82054		1078.927	.3303E-04	.960
1	-1	16	29	0	827.82435		1078.921	.8249E-05	.959
-1	1	2	8	2	827.83838	1	54.766	.5996E-02	1.022
-1	1	2	8	0	827.84138		54.761	.1499E-02	1.022
1	-1	9	14	3	827.86484		299.516	.4018E-03	.982
1	-1	9	14	1	827.86679		299.510	.2007E-03	.981
-1	1	1	6	3	827.92115		29.260	.1640E-02	1.024
-1	1	1	6	1	827.92316	-18	29.255	.6560E-02	1.024
1	1	0	4	2	827.98711		12.973	.3468E-02	1.000
1	1	0	4	0	827.98864	47	12.968	.6935E-02	1.000
1	-1	10	16	2	828.03101		377.980	.3588E-03	.979
1	-1	17	31	3	828.03302		1224.087	.4422E-05	.957
1	-1	10	16	0	828.03336		377.974	.8971E-04	.979
1	-1	17	31	1	828.03632		1224.081	.1769E-04	.957
1	0	3	35	3	828.10542		833.774	.1684E-02	1.136
1	1	1	2	3	828.11248		5.913	.1990E-02	.998
1	1	1	2	1	828.11408	-33	5.908	.7961E-02	.998
1	0	3	35	1	828.11482		833.768	.8418E-03	1.136
1	0	3	34	3	828.18621	86	788.545	.2026E-02	1.128
1	0	3	34	1	828.19519		788.539	.1014E-02	1.129
1	-1	11	18	3	828.20356		465.637	.7262E-04	.976
1	-1	11	18	1	828.20579		465.632	.2905E-03	.976
1	-1	18	33	2	828.25460		1378.354	.4497E-05	.954
1	-1	18	33	0	828.25882		1378.348	.8994E-05	.954
1	0	3	33	3	828.26514	70	744.599	.2422E-02	1.121
1	0	3	33	1	828.27370	20	744.593	.1212E-02	1.122
1	0	3	32	3	828.34217	128	701.937	.2874E-02	1.114
1	0	3	32	1	828.35033	-6	701.931	.1438E-02	1.115
1	-1	12	20	2	828.38508		562.472	.1084E-03	.973
1	-1	12	20	0	828.38784		562.467	.2168E-03	.973
1	0	3	31	3	828.41727	82	660.559	.3386E-02	1.107
1	0	3	31	1	828.42503	19	660.553	.1695E-02	1.108
1	-1	19	35	3	828.48124		1541.721	.1087E-05	.951
1	-1	19	35	1	828.48484		1541.715	.4347E-05	.951

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	0	3	30	3	828.49039	310*	620.467	.3964E-02	1.101
1	0	3	30	1	828.49778		620.461	.1982E-02	1.101
1	0	3	29	3	828.56151	624*	581.661	.4600E-02	1.094
1	0	3	29	1	828.56853		581.655	.2302E-02	1.095
1	-1	13	22	3	828.57270		668.484	.3767E-04	.970
1	-1	13	22	1	828.57523		668.479	.1507E-03	.970
1	0	3	28	3	828.63060	-12	544.141	.5304E-02	1.088
1	0	3	28	1	828.63725	52	544.135	.2652E-02	1.088
-1	1	13	31	3	828.65669		982.758	.3197E-04	1.053
-1	1	12	29	2	828.66210		853.589	.1150E-03	1.050
-1	1	14	33	2	828.66780		1121.055	.6790E-04	1.056
-1	1	11	27	3	828.66790		733.568	.9875E-04	1.047
-1	1	13	31	1	828.68088		982.752	.1279E-03	1.053
-1	1	11	27	1	828.68407		733.563	.3954E-03	1.048
-1	1	10	25	2	828.68787		622.699	.6482E-03	1.045
1	0	3	27	3	828.69761	57	507.909	.6068E-02	1.082
1	0	3	27	1	828.70391		507.903	.3034E-02	1.082
-1	1	9	23	3	828.71042		521.000	.1014E-02	1.042
-1	1	12	29	0	828.71061		853.584	.2300E-03	1.050
-1	1	10	25	0	828.71612		622.694	.1620E-03	1.045
-1	1	9	23	1	828.72111		520.995	.5073E-03	1.042
-1	1	8	21	2	828.74537	10	428.473	.1516E-02	1.039
-1	1	14	33	0	828.75262		1121.050	.1691E-04	1.052
-1	1	8	21	0	828.76191		428.468	.3790E-03	1.039
1	0	3	26	3	828.76251	196*	472.965	.6888E-02	1.076
1	0	3	26	1	828.76847		472.959	.3444E-02	1.076
1	-1	14	24	2	828.76930		783.655	.9816E-04	.967
1	-1	14	24	0	828.77247		783.649	.2454E-04	.967
-1	1	7	19	3	828.78450		345.134	.5408E-03	1.036
-1	1	7	19	1	828.79151	-66	345.129	.2163E-02	1.036
1	0	3	25	3	828.82529	83	439.310	.7758E-02	1.070
1	0	3	25	1	828.83092		439.304	.3882E-02	1.071
-1	1	6	17	2	828.83477		270.983	.1474E-02	1.033
-1	1	6	17	0	828.84443	69	270.978	.2951E-02	1.034
1	-1	7	9	3	828.87632		157.217	.3151E-04	.989
1	-1	7	9	1	828.87795		157.212	.1261E-03	.989
1	0	3	24	3	828.88589	281*	406.944	.8675E-02	1.065
-1	1	5	15	3	828.89033		206.036	.9611E-03	1.031

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	0	3	24	1	828.89121		406.938	.4337E-02	1.065
-1	1	5	15	1	828.89493	-623*	206.030	.3844E-02	1.031
1	0	3	23	3	828.94431	129	375.868	.9621E-02	1.060
1	0	3	23	1	828.94932		375.862	.4810E-02	1.060
-1	1	4	13	2	828.95616	42	150.290	.4790E-02	1.028
-1	1	4	13	0	828.96179		150.284	.1199E-02	1.029
1	-1	15	26	3	828.97168		907.982	.6020E-04	.964
1	-1	15	26	1	828.97452		907.976	.3010E-04	.964
1	0	3	22	3	829.00050	138	346.082	.1058E-01	1.055
1	0	3	22	1	829.00523		346.077	.5290E-02	1.055
-1	1	3	11	3	829.02802	1	103.758	.5730E-02	1.027
-1	1	3	11	1	829.03109		103.752	.2865E-02	1.027
1	-1	8	11	2	829.03168		214.690	.2332E-03	.986
1	-1	8	11	0	829.03350		214.685	.5830E-04	.986
1	0	3	21	3	829.05445	211*	317.588	.1154E-01	1.050
1	0	3	21	1	829.05889		317.582	.5769E-02	1.050
1	0	3	20	3	829.10612	211*	290.385	.1247E-01	1.045
-1	1	2	9	2	829.10953	-129	66.437	.6591E-02	1.026
1	0	3	20	1	829.11030		290.380	.6240E-02	1.046
-1	1	2	9	0	829.11286		66.432	.1648E-02	1.026
1	0	3	19	3	829.15550	-12	264.475	.1337E-01	1.041
1	0	3	19	1	829.15942		264.469	.6683E-02	1.041
1	-1	16	28	2	829.18304		1041.445	.3486E-04	.961
1	-1	16	28	0	829.18663		1041.439	.8716E-05	.961
1	-1	9	13	3	829.19366		281.372	.2844E-03	.983
1	-1	9	13	1	829.19550		281.367	.1422E-03	.983
-1	1	1	7	3	829.19747		38.339	.1844E-02	1.030
-1	1	1	7	1	829.19962	242*	38.334	.7377E-02	1.030
1	0	3	18	3	829.20255	-173*	239.857	.1419E-01	1.037
1	0	3	18	1	829.20623		239.851	.7096E-02	1.037
1	0	3	17	3	829.24726	2	216.532	.1492E-01	1.033
1	0	3	17	1	829.25070		216.526	.7460E-02	1.033
1	1	0	5	2	829.25836		19.458	.3926E-02	1.000
1	1	0	5	0	829.25989	30	19.453	.7852E-02	1.000
1	0	3	16	3	829.28960	-7	194.500	.1552E-01	1.029
1	0	3	16	1	829.29283		194.495	.7761E-02	1.029
1	0	3	15	3	829.32956	-55	173.762	.1599E-01	1.026
1	0	3	15	1	829.33258		173.757	.7993E-02	1.026

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	-1	10	15	2	829.36449		357.250	.2831E-03	.980
1	-1	10	15	0	829.36666		357.244	.7077E-04	.980
1	0	3	14	3	829.36712	-26	154.319	.1626E-01	1.022
1	0	3	14	1	829.36994		154.314	.8136E-02	1.023
1	1	1	3	3	829.39947		9.804	.2196E-02	.996
1	-1	17	30	3	829.39985		1184.040	.4782E-05	.959
1	1	1	3	1	829.40113	111	9.799	.8785E-02	.996
1	0	3	13	3	829.40225	-89	136.170	.1633E-01	1.019
1	-1	17	30	1	829.40299		1184.034	.1913E-04	.959
1	0	3	13	1	829.40489		136.165	.8166E-02	1.019
1	0	3	12	3	829.43494	-24	119.316	.1618E-01	1.016
1	0	3	12	1	829.43741		119.311	.8096E-02	1.017
1	0	3	11	3	829.46518	-21	103.758	.1578E-01	1.014
1	0	3	11	1	829.46749		103.752	.7890E-02	1.014
1	0	3	10	3	829.49294	-23	89.495	.1509E-01	1.011
1	0	3	10	1	829.49511		89.489	.7546E-02	1.011
1	0	3	9	3	829.51823	-26	76.527	.1412E-01	1.009
1	0	3	9	1	829.52027		76.522	.7061E-02	1.009
1	0	3	8	3	829.54102	-20	64.856	.1283E-01	1.007
1	-1	11	17	3	829.54171		442.323	.6177E-04	.978
1	0	3	8	1	829.54294		64.851	.6417E-02	1.007
1	-1	11	17	1	829.54381		442.317	.2468E-03	.977
1	0	3	7	3	829.56131	-25	54.481	.1121E-01	1.005
1	0	3	7	1	829.56312		54.476	.5610E-02	1.006
1	0	3	6	3	829.57908	-28	45.403	.9222E-02	1.004
1	0	3	6	1	829.58080		45.398	.4611E-02	1.004
1	0	3	5	3	829.59432	-42	37.621	.6801E-02	1.003
1	0	3	5	1	829.59597		37.616	.3401E-02	1.003
1	0	3	4	3	829.60704	-34	31.136	.3825E-02	1.002
1	0	3	4	1	829.60863		31.131	.1912E-02	1.002
1	-1	18	32	2	829.62562		1335.746	.4970E-05	.956
1	-1	18	32	0	829.62961		1335.740	.9940E-05	.956
1	-1	12	19	2	829.72778		536.576	.9747E-04	.975
1	-1	12	19	0	829.73034		536.570	.1947E-03	.974
1	-1	19	34	3	829.85647		1496.556	.1226E-05	.953
1	-1	19	34	1	829.85992		1496.550	.4903E-05	.953
-1	1	13	32	3	829.86331		1024.109	.2812E-04	1.056
-1	1	14	34	2	829.86872		1164.968	.5879E-04	1.059

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	1	12	30	2	829.87479		892.374	.1028E-03	1.053
-1	1	11	28	3	829.88622		769.784	.8968E-04	1.050
-1	1	13	32	1	829.88860		1024.103	.1125E-03	1.056
-1	1	11	28	1	829.90330		769.779	.3587E-03	1.050
-1	1	10	26	2	829.91211	9	656.342	.5979E-03	1.047
1	-1	13	21	3	829.91997		640.008	.3540E-04	.972
1	-1	13	21	1	829.92236		640.003	.1416E-03	.972
-1	1	12	30	0	829.92543		892.369	.2054E-03	1.052
-1	1	9	24	3	829.94021	10	552.067	.9518E-03	1.044
-1	1	10	26	0	829.94207		656.337	.1495E-03	1.047
-1	1	9	24	1	829.95162		552.062	.4759E-03	1.044
-1	1	14	34	0	829.95564		1164.962	.1464E-04	1.055
-1	1	8	22	2	829.98095	50	456.961	.1447E-02	1.041
-1	1	8	22	0	829.99874		456.956	.3622E-03	1.042
-1	1	7	20	3	830.02556		371.040	.5262E-03	1.039
-1	1	7	20	1	830.03311	-34	371.035	.2105E-02	1.039
-1	1	6	18	2	830.08149	-1	294.306	.1461E-02	1.036
-1	1	6	18	0	830.09202	25	294.300	.2925E-02	1.037
1	-1	14	23	2	830.12101		752.602	.9572E-04	.969
1	-1	14	23	0	830.12398		752.597	.2393E-04	.969
-1	1	5	16	3	830.14246		226.772	.9706E-03	1.034
-1	1	5	16	1	830.14745	-35	226.767	.3882E-02	1.034
-1	1	4	14	2	830.21381	-22	168.438	.4938E-02	1.032
-1	1	4	14	0	830.22001		168.432	.1234E-02	1.032
-1	1	3	12	3	830.29100	-20	119.316	.6020E-02	1.030
-1	1	3	12	1	830.29433		119.311	.3010E-02	1.030
1	-1	15	25	3	830.32786		874.356	.6060E-04	.966
1	-1	15	25	1	830.33055		874.350	.3030E-04	.966
1	-1	8	10	2	830.35341		200.430	.9191E-04	.987
1	-1	8	10	0	830.35508		200.425	.2298E-04	.987
-1	1	2	10	2	830.37789	32	79.405	.7070E-02	1.030
-1	1	2	10	0	830.38156		79.399	.1769E-02	1.031
-1	1	1	8	3	830.47100		48.714	.2019E-02	1.036
-1	1	1	8	1	830.47330	-9	48.709	.8083E-02	1.037
1	-1	9	12	3	830.52018		264.523	.1679E-03	.985
1	-1	9	12	1	830.52192		264.518	.8394E-04	.985
1	1	0	6	2	830.52521		27.241	.4327E-02	1.000
1	1	0	6	0	830.52674	44	27.235	.8654E-02	1.000

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	-1	16	27	2	830.54356		1005.249	.3610E-04	.963
1	-1	16	27	0	830.54693		1005.243	.9024E-05	.963
1	1	1	4	3	830.68388		14.993	.2395E-02	.993
1	1	1	4	1	830.68562	-26	14.987	.9580E-02	.993
1	-1	10	14	2	830.69572		337.813	.2008E-03	.982
1	-1	10	14	0	830.69771		337.808	.5020E-04	.982
1	-1	17	29	3	830.76473		1145.278	.5074E-05	.960
1	-1	17	29	1	830.76772		1145.272	.2029E-04	.960
1	1	2	2	2	830.80199	38	11.965	.1166E-01	1.000
1	1	2	2	0	830.80358		11.960	.2915E-02	1.000
1	0	4	35	2	830.80373		847.873	.1520E-02	1.102
1	0	4	35	0	830.81649		847.867	.3801E-03	1.102
1	-1	11	16	3	830.87763		420.301	.4885E-04	.979
1	-1	11	16	1	830.87962		420.296	.1954E-03	.979
1	0	4	34	2	830.88699	29	802.646	.1831E-02	1.096
1	0	4	34	0	830.89916		802.640	.4583E-03	1.097
1	0	4	33	2	830.96821	49	758.701	.2192E-02	1.091
1	0	4	33	0	830.97980		758.695	.5481E-03	1.091
1	-1	18	31	2	830.99472		1294.421	.5403E-05	.958
1	-1	18	31	0	830.99850		1294.415	.1080E-04	.957
1	0	4	32	2	831.04738	43	716.040	.2603E-02	1.085
1	0	4	32	0	831.05840		716.034	.6513E-03	1.086
-1	1	13	33	3	831.06672		1066.744	.2446E-04	1.058
1	-1	12	18	2	831.06830		511.971	.8309E-04	.976
1	-1	12	18	0	831.07067		511.966	.1662E-03	.976
-1	1	12	31	2	831.08429		932.445	.9079E-04	1.055
-1	1	13	33	1	831.09308		1066.738	.9784E-04	1.058
-1	1	11	29	3	831.10139		807.287	.8048E-04	1.052
-1	1	11	29	1	831.11938		807.281	.3222E-03	1.053
1	0	4	31	2	831.12444	31	674.664	.3070E-02	1.080
-1	1	10	27	2	831.13324		691.274	.5458E-03	1.050
1	0	4	31	0	831.13491		674.658	.7682E-03	1.081
-1	1	12	31	0	831.13699		932.439	.1814E-03	1.054
-1	1	10	27	0	831.16489		691.268	.1364E-03	1.050
-1	1	9	25	3	831.16693	-19	584.424	.8831E-03	1.047
-1	1	9	25	1	831.17906		584.418	.4416E-03	1.047
1	0	4	30	2	831.19939	30	634.573	.3594E-02	1.075
1	0	4	30	0	831.20931		634.567	.8994E-03	1.076

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	1	8	23	2	831.21350	-89	486.740	.1366E-02	1.044
1	-1	19	33	3	831.22984		1452.673	.1362E-05	.955
-1	1	8	23	0	831.23256		486.734	.3417E-03	1.045
1	-1	19	33	1	831.23312		1452.667	.5448E-05	.955
-1	1	7	21	3	831.26363		398.239	.5045E-03	1.041
1	-1	13	20	3	831.26509		612.823	.3192E-04	.973
1	-1	13	20	1	831.26734		612.817	.1277E-03	.973
-1	1	7	21	1	831.27173	36	398.233	.2020E-02	1.042
1	0	4	29	2	831.27220	-12	595.767	.4176E-02	1.070
1	0	4	29	0	831.28159		595.762	.1045E-02	1.071
-1	1	6	19	2	831.32524	0	318.921	.1427E-02	1.039
-1	1	6	19	0	831.33667	-34	318.916	.2856E-02	1.040
1	0	4	28	2	831.34283	8	558.249	.4820E-02	1.066
1	0	4	28	0	831.35170		558.243	.1205E-02	1.066
-1	1	5	17	3	831.39167		248.802	.9649E-03	1.037
-1	1	5	17	1	831.39704	-16	248.797	.3860E-02	1.037
1	0	4	27	2	831.41126	12	522.018	.5515E-02	1.061
1	0	4	27	0	831.41964		522.012	.1379E-02	1.061
-1	1	4	15	2	831.46857	-12	187.881	.4999E-02	1.035
1	-1	14	22	2	831.47062		722.839	.9035E-04	.971
1	-1	14	22	0	831.47338		722.834	.2256E-04	.970
-1	1	4	15	0	831.47537		187.875	.1251E-02	1.036
1	0	4	26	2	831.47747	1	487.075	.6266E-02	1.057
1	0	4	26	0	831.48536		487.069	.1567E-02	1.057
1	0	4	25	2	831.54143	-1	453.420	.7056E-02	1.052
1	0	4	25	0	831.54885		453.415	.1766E-02	1.053
-1	1	3	13	3	831.55112	-66	136.170	.6213E-02	1.034
-1	1	3	13	1	831.55471		136.165	.3107E-02	1.034
1	0	4	24	2	831.60312	8	421.055	.7889E-02	1.048
1	0	4	24	0	831.61009		421.050	.1974E-02	1.049
-1	1	2	11	2	831.64340	-51	93.668	.7438E-02	1.035
-1	1	2	11	0	831.64746		93.663	.1859E-02	1.035
1	0	4	23	2	831.66252	69	389.980	.8746E-02	1.044
1	0	4	23	0	831.66906		389.975	.2189E-02	1.045
1	-1	15	24	3	831.68197		842.018	.5937E-04	.968
1	-1	15	24	1	831.68451		842.012	.2968E-04	.968
1	0	4	22	2	831.71961	0	360.196	.9623E-02	1.041
1	0	4	22	0	831.72572		360.190	.2406E-02	1.041

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	1	1	9	3	831.74168		60.386	.2166E-02	1.044
-1	1	1	9	1	831.74414	-22	60.381	.8663E-02	1.044
1	0	4	21	2	831.77436	133	331.702	.1049E-01	1.037
1	0	4	21	0	831.78007		331.697	.2621E-02	1.037
1	1	0	7	2	831.78764		36.319	.4665E-02	1.000
1	1	0	7	0	831.78917	68	36.314	.9330E-02	1.000
1	0	4	20	2	831.82677	11	304.500	.1133E-01	1.034
1	0	4	20	0	831.83209		304.495	.2833E-02	1.034
1	-1	9	11	3	831.84437		248.969	.6603E-04	.986
1	-1	9	11	1	831.84601		248.964	.3302E-04	.986
1	0	4	19	2	831.87680	83	278.590	.1212E-01	1.030
1	0	4	19	0	831.88175		278.585	.3030E-02	1.030
1	-1	16	26	2	831.90205		970.340	.3651E-04	.965
1	-1	16	26	0	831.90521		970.334	.9128E-05	.965
1	0	4	18	2	831.92444	-32	253.973	.1285E-01	1.027
1	0	4	18	0	831.92903		253.968	.3212E-02	1.027
1	1	1	5	3	831.96571		21.478	.2575E-02	.990
1	1	1	5	1	831.96754	75	21.473	.1030E-01	.990
1	0	4	17	2	831.96967	-138	230.649	.1348E-01	1.024
1	0	4	17	0	831.97393		230.643	.3370E-02	1.024
1	0	4	16	2	832.01248	39	208.618	.1399E-01	1.021
1	0	4	16	0	832.01642		208.612	.3500E-02	1.022
1	-1	10	13	2	832.02465		319.671	.1185E-03	.983
1	-1	10	13	0	832.02649		319.666	.2961E-04	.983
1	0	4	15	2	832.05285	44	187.881	.1435E-01	1.019
1	0	4	15	0	832.05649		187.875	.3589E-02	1.019
1	1	2	3	2	832.08889	124	15.856	.1202E-01	.999
1	1	2	3	0	832.09058		15.851	.3005E-02	.999
1	0	4	14	2	832.09077	-65	168.438	.1453E-01	1.016
1	0	4	14	0	832.09413		168.432	.3632E-02	1.016
1	0	4	13	2	832.12623	69	150.290	.1451E-01	1.014
1	-1	17	28	3	832.12762		1107.800	.5280E-05	.962
1	0	4	13	0	832.12931		150.284	.3628E-02	1.014
1	-1	17	28	1	832.13046		1107.794	.2112E-04	.962
1	0	4	12	2	832.15920	31	133.436	.1426E-01	1.012
1	0	4	12	0	832.16204		133.431	.3564E-02	1.012
1	0	4	11	2	832.18968	34	117.878	.1374E-01	1.010
1	0	4	11	0	832.19229		117.873	.3436E-02	1.010

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	-1	11	15	3	832.21130		399.573	.3472E-04	.981
1	-1	11	15	1	832.21317		399.567	.1389E-03	.981
1	0	4	10	2	832.21766	34	103.615	.1295E-01	1.008
1	0	4	10	0	832.22006		103.610	.3237E-02	1.008
1	0	4	9	2	832.24313	33	90.649	.1184E-01	1.006
1	0	4	9	0	832.24534		90.643	.2960E-02	1.006
1	0	4	8	2	832.26608	20	78.978	.1040E-01	1.005
-1	1	13	34	3	832.26687		1110.661	.2106E-04	1.060
1	0	4	8	0	832.26812		78.972	.2600E-02	1.005
1	0	4	7	2	832.28650	19	68.603	.8584E-02	1.004
1	0	4	7	0	832.28838		68.598	.2146E-02	1.004
-1	1	12	32	2	832.29058		973.800	.7946E-04	1.058
-1	1	13	34	1	832.29428		1110.655	.8434E-04	1.061
1	0	4	6	2	832.30438	29	59.525	.6323E-02	1.002
1	0	4	6	0	832.30613		59.520	.1581E-02	1.002
-1	1	11	30	3	832.31338		846.076	.7154E-04	1.055
1	0	4	5	2	832.31972	0	51.743	.3533E-02	1.001
1	0	4	5	0	832.32135		51.738	.8832E-03	1.001
-1	1	11	30	1	832.33227		846.070	.2862E-03	1.055
-1	1	12	32	0	832.34525		973.794	.1588E-03	1.057
-1	1	10	28	2	832.35123		727.492	.4923E-03	1.052
1	-1	18	30	2	832.36189		1254.380	.5762E-05	.959
1	-1	18	30	0	832.36545		1254.374	.1152E-04	.959
-1	1	10	28	0	832.38455		727.487	.1231E-03	1.052
-1	1	9	26	3	832.39055	124	618.069	.8093E-03	1.049
-1	1	9	26	1	832.40341		618.064	.4051E-03	1.050
1	-1	12	17	2	832.40660		488.659	.6596E-04	.978
1	-1	12	17	0	832.40879		488.653	.1319E-03	.978
-1	1	8	24	2	832.44298	-12	517.809	.1273E-02	1.047
-1	1	8	24	0	832.46331		517.803	.3182E-03	1.047
-1	1	7	22	3	832.49866		426.729	.4780E-03	1.044
-1	1	7	22	1	832.50732	-41	426.723	.1914E-02	1.045
-1	1	6	20	2	832.56601	69	344.829	.1375E-02	1.042
-1	1	6	20	0	832.57835	7	344.824	.2752E-02	1.043
1	-1	19	32	3	832.60130		1410.071	.1487E-05	.956
1	-1	19	32	1	832.60444		1410.065	.5949E-05	.956
1	-1	13	19	3	832.60803		586.929	.2734E-04	.975
1	-1	13	19	1	832.61016		586.924	.1094E-03	.975

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	1	5	18	3	832.63791		272.126	.9456E-03	1.040
-1	1	5	18	1	832.64369	-41	272.120	.3783E-02	1.040
-1	1	4	16	2	832.72040	1	208.618	.4983E-02	1.038
-1	1	4	16	0	832.72783		208.612	.1247E-02	1.039
-1	1	3	14	3	832.80833	-39	154.319	.6308E-02	1.038
-1	1	3	14	1	832.81221		154.314	.3154E-02	1.038
1	-1	14	21	2	832.81809		694.367	.8180E-04	.972
1	-1	14	21	0	832.82066		694.361	.2045E-04	.972
-1	1	2	12	2	832.90604	6	109.227	.7686E-02	1.040
-1	1	2	12	0	832.91049		109.222	.1923E-02	1.041
-1	1	1	10	3	833.00945		73.353	.2280E-02	1.052
-1	1	1	10	1	833.01208	-51	73.348	.9121E-02	1.052
1	-1	15	23	3	833.03399		810.969	.5622E-04	.969
1	-1	15	23	1	833.03639		810.963	.2811E-04	.969
1	1	0	8	2	833.04563		46.695	.4936E-02	1.000
1	1	0	8	0	833.04716	41	46.689	.9872E-02	1.000
1	1	1	6	3	833.24496		29.260	.2726E-02	.986
1	1	1	6	1	833.24690	-46	29.255	.1090E-01	.986
1	-1	16	25	2	833.25849		936.718	.3594E-04	.967
1	-1	16	25	0	833.26144		936.712	.8975E-05	.966
1	-1	10	12	2	833.35125		302.824	.4661E-04	.985
1	-1	10	12	0	833.35295		302.818	.1165E-04	.985
1	1	2	4	2	833.37319	9	21.045	.1251E-01	.998
1	1	2	4	0	833.37499		21.040	.3127E-02	.998
1	-1	17	27	3	833.48850		1071.609	.5367E-05	.964
1	-1	17	27	1	833.49119		1071.603	.2147E-04	.964
-1	1	12	33	2	833.49362		1016.439	.6881E-04	1.060
-1	1	11	31	3	833.52217		886.150	.6289E-04	1.057
1	0	5	35	3	833.52300		866.004	.3397E-03	1.081
1	0	5	35	1	833.53104	-51	865.998	.1359E-02	1.081
-1	1	11	31	1	833.54195		886.144	.2518E-03	1.058
1	-1	11	14	3	833.54269		380.138	.2050E-04	.982
1	-1	11	14	1	833.54445		380.133	.8201E-04	.982
-1	1	12	33	0	833.55018		1016.433	.1375E-03	1.059
-1	1	10	29	2	833.56605		764.998	.4399E-03	1.055
-1	1	10	29	0	833.60101		764.993	.1100E-03	1.055
1	0	5	34	3	833.60812		820.778	.4094E-03	1.076
-1	1	9	27	3	833.61103	330*	653.003	.7344E-03	1.052

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	0	5	34	1	833.61582	-149	820.773	.1639E-02	1.077
-1	1	9	27	1	833.62462		652.998	.3672E-03	1.052
-1	1	8	25	2	833.66936	14	550.168	.1173E-02	1.050
-1	1	8	25	0	833.69097		550.162	.2933E-03	1.050
1	0	5	33	3	833.69109		776.835	.4902E-03	1.072
1	0	5	33	1	833.69845	-101	776.830	.1961E-02	1.072
1	-1	18	29	2	833.72708		1215.623	.6027E-05	.961
1	-1	18	29	0	833.73043		1215.617	.1205E-04	.961
-1	1	7	23	3	833.73046		456.509	.4477E-03	1.047
-1	1	7	23	1	833.73986	-25	456.504	.1792E-02	1.048
1	-1	12	16	2	833.74266		466.639	.4695E-04	.979
1	-1	12	16	0	833.74468		466.634	.9389E-04	.979
1	0	5	32	3	833.77189		734.176	.5827E-03	1.068
1	0	5	32	1	833.77891	-232*	734.170	.2331E-02	1.068
-1	1	6	21	2	833.80374	-15	372.029	.1308E-02	1.045
-1	1	6	21	0	833.81702	18	372.023	.2619E-02	1.046
1	0	5	31	3	833.85049		692.801	.6875E-03	1.064
1	0	5	31	1	833.85719	-84	692.795	.2750E-02	1.064
-1	1	5	19	3	833.88115		296.742	.9147E-03	1.043
-1	1	5	19	1	833.88736	-38	296.737	.3662E-02	1.044
1	0	5	30	3	833.92686		652.711	.8050E-03	1.060
1	0	5	30	1	833.93325	-92	652.706	.3220E-02	1.060
1	-1	13	18	3	833.94877		562.327	.2177E-04	.977
1	-1	13	18	1	833.95078		562.321	.8710E-04	.977
-1	1	4	17	2	833.96926	0	230.649	.4904E-02	1.042
1	-1	19	31	3	833.97083		1368.752	.1596E-05	.958
1	-1	19	31	1	833.97382		1368.746	.6384E-05	.958
-1	1	4	17	0	833.97734		230.643	.1227E-02	1.043
1	0	5	29	3	834.00100		613.908	.9355E-03	1.056
1	0	5	29	1	834.00707	137	613.902	.3742E-02	1.056
-1	1	3	15	3	834.06260	148	173.762	.6310E-02	1.042
-1	1	3	15	1	834.06677		173.757	.3155E-02	1.042
1	0	5	28	3	834.07287		576.390	.1079E-02	1.052
1	0	5	28	1	834.07864	-90	576.385	.4315E-02	1.052
1	0	5	27	3	834.14245		540.161	.1234E-02	1.048
1	0	5	27	1	834.14794	-52	540.155	.4936E-02	1.048
1	-1	14	20	2	834.16340		667.184	.7032E-04	.974
-1	1	2	13	2	834.16574	6	126.081	.7820E-02	1.045

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	-1	14	20	0	834.16578		667.179	.1758E-04	.974
-1	1	2	13	0	834.17061		126.076	.1957E-02	1.046
1	0	5	26	3	834.20973		505.219	.1402E-02	1.045
1	0	5	26	1	834.21493	-88	505.213	.5608E-02	1.045
-1	1	1	11	3	834.27424		87.617	.2361E-02	1.060
1	0	5	25	3	834.27469		471.566	.1578E-02	1.041
-1	1	1	11	1	834.27706	39	87.612	.9455E-02	1.061
1	0	5	25	1	834.27962	-217*	471.560	.6313E-02	1.041
1	1	0	9	2	834.29915		58.366	.5138E-02	1.000
1	1	0	9	0	834.30068	60	58.361	.1028E-01	1.000
1	0	5	24	3	834.33730		439.202	.1764E-02	1.038
1	0	5	24	1	834.34196	-97	439.196	.7055E-02	1.038
1	-1	15	22	3	834.38388		781.209	.5117E-04	.971
1	-1	15	22	1	834.38615		781.204	.2559E-04	.971
1	0	5	23	3	834.39755		408.128	.1954E-02	1.035
1	0	5	23	1	834.40196	-48	408.122	.7816E-02	1.035
1	0	5	22	3	834.45543		378.344	.2146E-02	1.032
1	0	5	22	1	834.45959	-57	378.339	.8584E-02	1.032
1	0	5	21	3	834.51091		349.852	.2336E-02	1.029
1	0	5	21	1	834.51483	-79	349.846	.9342E-02	1.029
1	1	1	7	3	834.52163		38.339	.2842E-02	.981
1	1	1	7	1	834.52369	47	38.334	.1137E-01	.981
1	0	5	20	3	834.56397		322.651	.2518E-02	1.026
1	0	5	20	1	834.56767	-50	322.645	.1007E-01	1.026
1	-1	16	24	2	834.61284		904.384	.3419E-04	.968
1	0	5	19	3	834.61461		296.742	.2691E-02	1.024
1	-1	16	24	0	834.61560		904.379	.8548E-05	.968
1	0	5	19	1	834.61809	-75	296.737	.1076E-01	1.024
1	1	2	5	2	834.65486	11	27.530	.1299E-01	.997
1	1	2	5	0	834.65680		27.525	.3249E-02	.997
1	0	5	18	3	834.66281		272.126	.2843E-02	1.021
1	0	5	18	1	834.66608	-45	272.120	.1137E-01	1.021
-1	1	12	34	2	834.69338		1060.361	.5909E-04	1.063
1	0	5	17	3	834.70856		248.802	.2973E-02	1.019
1	0	5	17	1	834.71163	-63	248.797	.1189E-01	1.019
-1	1	11	32	3	834.72771		927.509	.5481E-04	1.060
-1	1	11	32	1	834.74837		927.503	.2192E-03	1.060
-1	1	12	34	0	834.75175		1060.355	.1181E-03	1.062

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	0	5	16	3	834.75183		226.772	.3073E-02	1.017
1	0	5	16	1	834.75472	-61	226.767	.1229E-01	1.017
-1	1	10	30	2	834.77766		803.790	.3891E-03	1.058
1	0	5	15	3	834.79263		206.036	.3131E-02	1.014
1	1	3	3	3	834.79527	-60	25.948	.1533E-01	1.000
1	0	5	15	1	834.79534	-14	206.030	.1254E-01	1.015
1	1	3	3	1	834.79685		25.942	.7664E-02	1.000
-1	1	10	30	0	834.81423		803.785	.9728E-04	1.058
-1	1	9	28	3	834.82835		689.225	.6596E-03	1.055
1	0	5	14	3	834.83093		186.593	.3149E-02	1.012
1	0	5	14	1	834.83348	-59	186.588	.1261E-01	1.013
-1	1	9	28	1	834.84267		689.219	.3298E-03	1.055
1	-1	17	26	3	834.84733		1036.704	.5302E-05	.965
1	-1	17	26	1	834.84989		1036.699	.2121E-04	.965
1	0	5	13	3	834.86673		168.446	.3118E-02	1.011
1	0	5	13	1	834.86912	-48	168.440	.1247E-01	1.011
1	-1	11	13	3	834.87176		361.997	.8071E-05	.984
1	-1	11	13	1	834.87342		361.992	.3225E-04	.983
-1	1	8	26	2	834.89261		583.816	.1070E-02	1.053
1	0	5	12	3	834.90002		151.593	.3025E-02	1.009
1	0	5	12	1	834.90226	-45	151.588	.1210E-01	1.009
-1	1	8	26	0	834.91549		583.810	.2675E-03	1.053
1	0	5	11	3	834.93078		136.035	.2866E-02	1.007
1	0	5	11	1	834.93289	-40	136.030	.1147E-01	1.007
1	0	5	10	3	834.95901		121.773	.2638E-02	1.006
-1	1	7	24	3	834.95950		487.580	.4146E-03	1.050
1	0	5	10	1	834.96100	-51	121.768	.1055E-01	1.006
-1	1	7	24	1	834.96931		487.575	.1660E-02	1.051
1	0	5	9	3	834.98470		108.807	.2328E-02	1.005
1	0	5	9	1	834.98657	-41	108.802	.9313E-02	1.005
1	0	5	8	3	835.00784		97.137	.1926E-02	1.003
1	0	5	8	1	835.00961	-38	97.131	.7702E-02	1.003
1	0	5	7	3	835.02843		86.762	.1421E-02	1.002
1	0	5	7	1	835.03011	-32	86.757	.5684E-02	1.002
-1	1	6	22	2	835.03841	32	400.520	.1231E-02	1.048
1	0	5	6	3	835.04646		77.684	.7914E-03	1.001
1	0	5	6	1	835.04806	155	77.679	.3166E-02	1.001
-1	1	6	22	0	835.05264	-303*	400.514	.2464E-02	1.049

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	-1	12	15	2	835.07645		445.913	.2781E-04	.981
1	-1	12	15	0	835.07831		445.908	.5561E-04	.981
1	-1	18	28	2	835.09027		1178.151	.6158E-05	.963
1	-1	18	28	0	835.09342		1178.145	.1230E-04	.962
-1	1	5	20	3	835.12135		322.651	.8748E-03	1.047
-1	1	5	20	1	835.12800	-38	322.645	.3499E-02	1.047
-1	1	4	18	2	835.21512	-6	253.973	.4765E-02	1.046
-1	1	4	18	0	835.22387	52	253.968	.1192E-02	1.047
1	-1	13	17	3	835.28728		539.017	.1554E-04	.978
1	-1	13	17	1	835.28917		539.011	.6216E-04	.978
-1	1	3	16	3	835.31389	88	194.500	.6233E-02	1.047
-1	1	3	16	1	835.31837		194.495	.3117E-02	1.047
1	-1	19	30	3	835.33840		1328.717	.1678E-05	.960
1	-1	19	30	1	835.34124		1328.711	.6713E-05	.960
-1	1	2	14	2	835.42246	-18	144.230	.7852E-02	1.051
-1	1	2	14	0	835.42777		144.225	.1965E-02	1.052
1	-1	14	19	2	835.50652		641.293	.5614E-04	.975
1	-1	14	19	0	835.50872		641.288	.1404E-04	.975
-1	1	1	12	3	835.53599		103.176	.2414E-02	1.070
-1	1	1	12	1	835.53901	-58	103.171	.9658E-02	1.070
1	1	0	10	2	835.54818		71.334	.5270E-02	1.000
1	1	0	10	0	835.54971	61	71.329	.1054E-01	1.000
1	-1	15	21	3	835.73161		752.740	.4417E-04	.973
1	-1	15	21	1	835.73375		752.734	.2206E-04	.972
1	1	1	8	3	835.79571		48.714	.2926E-02	.976
1	1	1	8	1	835.79791	-41	48.709	.1170E-01	.976
-1	1	11	33	3	835.92998		970.152	.4732E-04	1.063
1	1	2	6	2	835.93390	36	35.312	.1340E-01	.995
1	1	2	6	0	835.93601		35.307	.3350E-02	.995
-1	1	11	33	1	835.95150		970.146	.1893E-03	1.063
1	-1	16	23	2	835.96508		873.339	.3126E-04	.970
1	-1	16	23	0	835.96765		873.334	.7814E-05	.970
-1	1	10	31	2	835.98604		843.868	.3406E-03	1.060
-1	1	10	31	0	836.02417		843.862	.8516E-04	1.060
-1	1	9	29	3	836.04246		726.733	.5865E-03	1.058
-1	1	9	29	1	836.05750		726.728	.2933E-03	1.058
1	1	3	4	3	836.07943	-25	31.136	.1538E-01	.999
1	1	3	4	1	836.08108		31.131	.7691E-02	.999

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i	ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	1	8	27	2	836.11269	-33	618.752	.9658E-03	1.056	1	1	0	11	2	836.79270		85.598	.5335E-02	1.000
-1	1	8	27	0	836.13684		618.746	.2415E-03	1.056	1	1	0	11	0	836.79423	139	85.592	.1067E-01	1.000
-1	1	7	25	3	836.18524		519.941	.3799E-03	1.053	-1	1	1	13	3	836.79464		120.030	.2434E-02	1.079
-1	1	7	25	1	836.19562	-195*	519.935	.1521E-02	1.054	-1	1	1	13	1	836.79786	-326*	120.025	.9744E-02	1.080
1	-1	17	25	3	836.20409		1003.087	.5074E-05	.967	1	0	6	28	2	836.82520		598.557	.1897E-02	1.043
1	-1	17	25	1	836.20651		1003.082	.2030E-04	.967	1	0	6	28	0	836.83275	34	598.551	.3795E-02	1.043
1	0	6	35	2	836.26781		888.158	.5983E-03	1.067	1	-1	14	18	2	836.84741		616.694	.4024E-04	.977
-1	1	6	23	2	836.26998	86	430.302	.1146E-02	1.052	1	-1	14	18	0	836.84944		616.688	.1006E-04	.977
1	0	6	35	0	836.27860		888.152	.1197E-02	1.067	1	0	6	27	2	836.89560		562.329	.2170E-02	1.040
-1	1	6	23	0	836.28516	-28	430.297	.2292E-02	1.052	1	0	6	27	0	836.90273	53	562.323	.4340E-02	1.040
1	0	6	34	2	836.35423		842.934	.7212E-03	1.063	1	0	6	26	2	836.96363		527.389	.2462E-02	1.037
-1	1	5	21	3	836.35849		349.852	.8264E-03	1.050	1	0	6	26	0	836.97036	55	527.383	.4924E-02	1.037
1	0	6	34	0	836.36452		842.928	.1444E-02	1.064	1	0	6	25	2	837.02929		493.737	.2770E-02	1.034
-1	1	5	21	1	836.36557	-63	349.846	.3309E-02	1.051	1	0	6	25	0	837.03562	74	493.732	.5539E-02	1.034
1	-1	12	14	2	836.40794		426.480	.1095E-04	.982	1	1	1	9	3	837.06722		60.386	.2972E-02	.970
1	-1	12	14	0	836.40965		426.475	.2189E-04	.982	1	1	1	9	1	837.06958	-127	60.381	.1189E-01	.970
1	0	6	33	2	836.43842		798.993	.8638E-03	1.060	1	-1	15	20	3	837.07716		725.561	.3540E-04	.974
1	0	6	33	0	836.44823	85	798.987	.1728E-02	1.060	1	-1	15	20	1	837.07918		725.555	.1770E-04	.974
1	-1	18	27	2	836.45143		1141.964	.6114E-05	.964	1	0	6	24	2	837.09255		461.375	.3090E-02	1.031
1	-1	18	27	0	836.45438		1141.959	.1223E-04	.964	1	0	6	24	0	837.09850	196*	461.369	.6179E-02	1.031
-1	1	4	19	2	836.45794	8	278.590	.4575E-02	1.050	-1	1	11	34	3	837.12894		1014.078	.4048E-04	1.066
-1	1	4	19	0	836.46737	61	278.585	.1145E-02	1.051	-1	1	11	34	1	837.15131		1014.072	.1619E-03	1.066
1	0	6	32	2	836.52035		756.336	.1026E-02	1.056	1	0	6	23	2	837.15340		430.302	.3420E-02	1.029
1	0	6	32	0	836.52969	49	756.330	.2052E-02	1.056	1	0	6	23	0	837.15899	59	430.297	.6839E-02	1.029
-1	1	3	17	3	836.56214	57	216.532	.6076E-02	1.051	-1	1	10	32	2	837.19114		885.230	.2957E-03	1.063
-1	1	3	17	1	836.56694		216.526	.3041E-02	1.052	1	1	2	7	2	837.21030	66	44.391	.1371E-01	.993
1	0	6	31	2	836.60002		714.963	.1211E-02	1.053	1	0	6	22	2	837.21183		400.520	.3747E-02	1.026
1	0	6	31	0	836.60889	68	714.957	.2421E-02	1.053	1	1	2	7	0	837.21259		44.385	.3426E-02	.993
1	-1	13	16	3	836.62352		517.000	.9227E-05	.980	1	0	6	22	0	837.21706	94	400.514	.7494E-02	1.026
1	-1	13	16	1	836.62530		516.994	.3687E-04	.979	-1	1	10	32	0	837.23080		885.224	.7392E-04	1.063
-1	1	2	15	2	836.67616	93	163.674	.7782E-02	1.057	-1	1	9	30	3	837.25333		765.529	.5166E-03	1.061
1	0	6	30	2	836.67740		674.875	.1416E-02	1.049	1	0	6	21	2	837.26782		372.029	.4071E-02	1.024
-1	1	2	15	0	836.68193		163.669	.1947E-02	1.058	-1	1	9	30	1	837.26910		765.523	.2583E-03	1.061
1	0	6	30	0	836.68582	91	674.869	.2832E-02	1.049	1	0	6	21	0	837.27271	-149	372.023	.8143E-02	1.024
1	-1	19	29	3	836.70397		1289.966	.1722E-05	.961	1	-1	16	22	2	837.31517		843.583	.2707E-04	.971
1	-1	19	29	1	836.70667		1289.960	.6886E-05	.961	1	-1	16	22	0	837.31756		843.578	.6766E-05	.971
1	0	6	29	2	836.75246		636.073	.1646E-02	1.046	1	0	6	20	2	837.32136		344.829	.4376E-02	1.021
1	0	6	29	0	836.76044	65	636.067	.3291E-02	1.046	1	0	6	20	0	837.32592	-102	344.824	.8752E-02	1.021

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	1	8	28	2	837.32957		654.976	.8633E-03	1.059
-1	1	8	28	0	837.35498		654.970	.2158E-03	1.059
1	1	3	5	3	837.36095	-25	37.621	.1555E-01	.999
1	1	3	5	1	837.36267		37.616	.7775E-02	.999
1	0	6	19	2	837.37243		318.921	.4659E-02	1.019
1	0	6	19	0	837.37668	-92	318.916	.9318E-02	1.019
-1	1	7	26	3	837.40781		553.591	.3450E-03	1.057
-1	1	7	26	1	837.41877		553.585	.1380E-02	1.057
1	0	6	18	2	837.42103		294.306	.4905E-02	1.017
1	0	6	18	0	837.42498	120	294.300	.9811E-02	1.017
1	0	6	17	2	837.46713		270.983	.5103E-02	1.015
1	0	6	17	0	837.47080	163	270.978	.1021E-01	1.015
-1	1	6	24	2	837.49841		461.375	.1055E-02	1.055
1	0	6	16	2	837.51074		248.954	.5241E-02	1.013
1	0	6	16	0	837.51414	153	248.949	.1048E-01	1.013
-1	1	6	24	0	837.51456		461.369	.2112E-02	1.056
1	0	6	15	2	837.55184		228.219	.5309E-02	1.012
1	0	6	15	0	837.55498	135	228.213	.1062E-01	1.012
1	-1	17	24	3	837.55874		970.758	.4660E-05	.969
1	-1	17	24	1	837.56102		970.752	.1862E-04	.968
1	0	6	14	2	837.59042		208.778	.5285E-02	1.010
-1	1	5	22	3	837.59251		378.344	.7730E-03	1.054
1	0	6	14	0	837.59332	113	208.772	.1057E-01	1.010
-1	1	5	22	1	837.60004		378.339	.3092E-02	1.054
1	0	6	13	2	837.62647		190.631	.5158E-02	1.008
1	0	6	13	0	837.62914	105	190.625	.1032E-01	1.008
1	0	6	12	2	837.65997		173.779	.4921E-02	1.007
1	0	6	12	0	837.66244	101	173.773	.9842E-02	1.007
1	0	6	11	2	837.69094		158.222	.4552E-02	1.006
1	0	6	11	0	837.69321	185*	158.216	.9105E-02	1.006
-1	1	4	20	2	837.69766		304.500	.4343E-02	1.054
-1	1	4	20	0	837.70780		304.495	.1087E-02	1.055
1	0	6	10	2	837.71935		143.960	.4032E-02	1.004
1	0	6	10	0	837.72144	91	143.955	.8064E-02	1.004
1	0	6	9	2	837.74520		130.995	.3349E-02	1.003
1	0	6	9	0	837.74712	75	130.989	.6698E-02	1.003
1	0	6	8	2	837.76848		119.325	.2476E-02	1.002
1	0	6	8	0	837.77026	72	119.319	.4951E-02	1.002

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	0	6	7	2	837.78919		108.951	.1377E-02	1.001
1	0	6	7	0	837.79083	84	108.945	.2755E-02	1.001
-1	1	3	18	3	837.80732	145	239.857	.5859E-02	1.056
1	-1	18	26	2	837.81052		1107.065	.5879E-05	.966
-1	1	3	18	1	837.81245		239.851	.2932E-02	1.057
1	-1	18	26	0	837.81328		1107.059	.1176E-04	.966
-1	1	2	16	2	837.92678	1	184.412	.7622E-02	1.063
-1	1	2	16	0	837.93303		184.407	.1907E-02	1.064
1	-1	13	15	3	837.95747		496.275	.3639E-05	.981
1	-1	13	15	1	837.95914		496.270	.1456E-04	.981
1	1	0	12	2	838.03268		101.157	.5334E-02	1.000
1	1	0	12	0	838.03422	35	101.151	.1067E-01	1.000
-1	1	1	14	3	838.05010		138.180	.2427E-02	1.090
-1	1	1	14	1	838.05354	-24	138.174	.9718E-02	1.091
1	-1	19	28	3	838.06752		1252.499	.1720E-05	.963
1	-1	19	28	1	838.07008		1252.494	.6879E-05	.963
1	-1	14	17	2	838.18604		593.386	.2394E-04	.978
1	-1	14	17	0	838.18792		593.381	.5984E-05	.978
1	1	1	10	3	838.33618		73.353	.2983E-02	.964
1	1	1	10	1	838.33871	-39	73.348	.1192E-01	.963
-1	1	10	33	2	838.39294		927.877	.2543E-03	1.066
1	-1	15	19	3	838.42049		699.673	.2546E-04	.976
1	-1	15	19	1	838.42239		699.667	.1272E-04	.975
-1	1	10	33	0	838.43409		927.871	.6359E-04	1.066
-1	1	9	31	3	838.46094		805.609	.4508E-03	1.064
-1	1	9	31	1	838.47742		805.603	.2254E-03	1.064
1	1	2	8	2	838.48404	82	54.766	.1389E-01	.991
1	1	2	8	0	838.48653		54.761	.3473E-02	.991
-1	1	8	29	2	838.54321	62	692.487	.7643E-03	1.062
-1	1	8	29	0	838.56987		692.481	.1911E-03	1.062
-1	1	7	27	3	838.62716		588.529	.3099E-03	1.060
-1	1	7	27	1	838.63872		588.523	.1240E-02	1.060
1	1	3	6	3	838.63979	-35	45.403	.1569E-01	.998
1	1	3	6	1	838.64160		45.398	.7847E-02	.998
1	-1	16	21	2	838.66309		815.117	.2180E-04	.973
1	-1	16	21	0	838.66530		815.112	.5451E-05	.973
-1	1	6	25	2	838.72367	22	493.737	.9626E-03	1.059
-1	1	6	25	0	838.74078	6	493.732	.1925E-02	1.059

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	1	4	4	2	838.80465	20	45.258	.1803E-01	1.000
1	1	4	4	0	838.80627		45.253	.4508E-02	1.000
-1	1	5	23	3	838.82338	-360*	408.128	.7156E-03	1.058
-1	1	5	23	1	838.83137	-45	408.122	.2862E-02	1.058
1	-1	17	23	3	838.91125		939.717	.4053E-05	.970
1	-1	17	23	1	838.91341		939.711	.1621E-04	.970
-1	1	4	21	2	838.93427	-21	331.702	.4080E-02	1.058
-1	1	4	21	0	838.94512	8	331.697	.1021E-02	1.059
1	0	7	35	3	839.02853		914.341	.2588E-03	1.057
1	0	7	35	1	839.03559		914.335	.1035E-02	1.057
-1	1	3	19	3	839.04939	157	264.475	.5589E-02	1.061
-1	1	3	19	1	839.05485		264.469	.2797E-02	1.062
1	0	7	34	3	839.11617		869.120	.3120E-03	1.054
1	0	7	34	1	839.12293	-50	869.114	.1248E-02	1.054
1	-1	18	25	2	839.16751		1073.452	.5419E-05	.967
1	-1	18	25	0	839.17009		1073.447	.1084E-04	.967
-1	1	2	17	2	839.17427	-29	206.444	.7387E-02	1.070
-1	1	2	17	0	839.18100	126	206.439	.1849E-02	1.071
1	0	7	33	3	839.20151		825.181	.3730E-03	1.050
1	0	7	33	1	839.20799	-78	825.175	.1494E-02	1.051
1	1	0	13	2	839.26812		118.011	.5273E-02	1.000
1	1	0	13	0	839.26966	49	118.006	.1055E-01	1.000
1	0	7	32	3	839.28455		782.526	.4431E-03	1.047
1	0	7	32	1	839.29073	-124	782.520	.1774E-02	1.048
-1	1	1	15	3	839.30232		157.624	.2393E-02	1.101
-1	1	1	15	1	839.30598	-58	157.618	.9582E-02	1.102
1	0	7	31	3	839.36525		741.155	.5223E-03	1.044
1	0	7	31	1	839.37115	0	741.149	.2091E-02	1.045
1	-1	19	27	3	839.42901		1216.319	.1662E-05	.965
1	-1	19	27	1	839.43144		1216.313	.6640E-05	.964
1	0	7	30	3	839.44360		701.069	.6115E-03	1.042
1	0	7	30	1	839.44923	-246*	701.063	.2446E-02	1.042
1	0	7	29	3	839.51959		662.269	.7098E-03	1.039
1	-1	14	16	2	839.52240		571.371	.9474E-05	.980
1	-1	14	16	0	839.52412		571.366	.2368E-05	.980
1	0	7	29	1	839.52495	-117	662.263	.2839E-02	1.039
-1	1	10	34	2	839.59139		971.806	.2169E-03	1.069
1	0	7	28	3	839.59320		624.755	.8172E-03	1.036
1	0	7	28	1	839.59830		624.750	.3269E-02	1.036
1	1	1	11	3	839.60258		87.617	.2957E-02	.956
1	1	1	11	1	839.60531	-49	87.612	.1183E-01	.956
-1	1	10	34	0	839.63399		971.801	.5422E-04	1.069
1	0	7	27	3	839.66441		588.529	.9333E-03	1.033
-1	1	9	32	3	839.66523		846.975	.3899E-03	1.067
1	0	7	27	1	839.66927	-114	588.523	.3737E-02	1.034
-1	1	9	32	1	839.68243		846.969	.1950E-03	1.067
1	0	7	26	3	839.73322		553.591	.1058E-02	1.031
1	0	7	26	1	839.73782	-72	553.585	.4232E-02	1.031
-1	1	8	30	2	839.75358		731.285	.6705E-03	1.065
1	1	2	9	2	839.75511	-3	66.437	.1394E-01	.988
1	1	2	9	0	839.75784		66.432	.3485E-02	.988
1	-1	15	18	3	839.76157		675.076	.1519E-04	.977
1	-1	15	18	1	839.76337		675.071	.7597E-05	.977
-1	1	8	30	0	839.78147		731.279	.1678E-03	1.066
1	0	7	25	3	839.79960		519.941	.1188E-02	1.028
1	0	7	25	1	839.80396	5	519.935	.4758E-02	1.029
-1	1	7	28	3	839.84328		624.755	.2758E-03	1.063
-1	1	7	28	1	839.85542		624.750	.1104E-02	1.064
1	0	7	24	3	839.86354		487.580	.1324E-02	1.026
1	0	7	24	1	839.86768	121	487.575	.5296E-02	1.026
1	1	3	7	3	839.91595	-31	54.481	.1578E-01	.997
1	1	3	7	1	839.91787		54.476	.7888E-02	.997
1	0	7	23	3	839.92503		456.509	.1462E-02	1.024
1	0	7	23	1	839.92894	-17	456.504	.5847E-02	1.024
-1	1	6	26	2	839.94571		527.389	.8691E-03	1.062
-1	1	6	26	0	839.96380	20	527.383	.1740E-02	1.063
1	0	7	22	3	839.98405		426.729	.1599E-02	1.022
1	0	7	22	1	839.98775	-68	426.723	.6395E-02	1.022
1	-1	16	20	2	840.00880		787.942	.1573E-04	.974
1	-1	16	20	0	840.01085		787.936	.3932E-05	.974
1	0	7	21	3	840.04060		398.239	.1731E-02	1.020
1	0	7	21	1	840.04409	-65	398.233	.6926E-02	1.020
-1	1	5	24	3	840.05106		439.202	.6560E-03	1.062
-1	1	5	24	1	840.05952	-39	439.196	.2624E-02	1.062
1	1	4	5	2	840.08603	21	51.743	.1781E-01	.999
1	1	4	5	0	840.08777		51.738	.4451E-02	.999

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	0	7	20	3	840.09466		371.040	.1856E-02	1.018
1	0	7	20	1	840.09795	-46	371.035	.7423E-02	1.018
1	0	7	19	3	840.14621		345.134	.1967E-02	1.016
1	0	7	19	1	840.14932	-71	345.129	.7867E-02	1.016
-1	1	4	22	2	840.16770	-1	360.196	.3797E-02	1.063
-1	1	4	22	0	840.17928	-11	360.190	.9502E-03	1.064
1	0	7	18	3	840.19526		320.520	.2059E-02	1.014
1	0	7	18	1	840.19819	-62	320.514	.8237E-02	1.014
1	0	7	17	3	840.24179		297.199	.2128E-02	1.012
1	0	7	17	1	840.24454	-50	297.193	.8513E-02	1.012
1	-1	17	22	3	840.26160		909.965	.3279E-05	.972
1	-1	17	22	1	840.26364		909.959	.1310E-04	.971
1	0	7	16	3	840.28578		275.171	.2170E-02	1.011
-1	1	3	20	3	840.28829	-21	290.385	.5276E-02	1.066
1	0	7	16	1	840.28837	-30	275.165	.8678E-02	1.011
-1	1	3	20	1	840.29410		290.380	.2640E-02	1.067
1	0	7	15	3	840.32724		254.436	.2173E-02	1.009
1	0	7	15	1	840.32968	-52	254.431	.8691E-02	1.009
1	0	7	14	3	840.36614		234.996	.2135E-02	1.008
1	0	7	14	1	840.36844	-53	234.991	.8541E-02	1.008
1	0	7	13	3	840.40249		216.850	.2048E-02	1.007
1	0	7	13	1	840.40465	-43	216.845	.8194E-02	1.007
-1	1	2	18	2	840.41858	-17	229.770	.7084E-02	1.077
-1	1	2	18	0	840.42581		229.764	.1773E-02	1.078
1	0	7	12	3	840.43628		199.999	.1903E-02	1.005
1	0	7	12	1	840.43831	-31	199.994	.7611E-02	1.005
1	0	7	11	3	840.46749		184.443	.1695E-02	1.004
1	0	7	11	1	840.46940	-35	184.438	.6778E-02	1.004
1	0	7	10	3	840.49613		170.182	.1413E-02	1.003
1	0	7	10	1	840.49793	128	170.177	.5651E-02	1.003
1	1	0	14	0	840.50052	-132	136.155	.1031E-01	1.000
1	0	7	9	3	840.52218		157.217	.1047E-02	1.002
1	-1	18	24	2	840.52238		1041.127	.4740E-05	.969
1	0	7	9	1	840.52388	-71	157.212	.4187E-02	1.002
1	-1	18	24	0	840.52478		1041.122	.9480E-05	.969
1	0	7	8	3	840.54564		145.548	.5826E-03	1.001
1	0	7	8	1	840.54726		145.542	.2330E-02	1.001
-1	1	1	16	3	840.55121		178.362	.2336E-02	1.113
-1	1	1	16	1	840.55509	-51	178.357	.9354E-02	1.114
1	1	0	14	2	840.63861		136.161	.5157E-02	1.000
1	-1	19	26	3	840.78841		1181.424	.1539E-05	.966
1	-1	19	26	1	840.79071		1181.419	.6157E-05	.966
-1	1	9	33	3	840.86619		889.625	.3343E-03	1.070
1	1	1	12	3	840.86646		103.176	.2899E-02	.948
1	1	1	12	1	840.86940	-65	103.171	.1160E-01	.948
-1	1	9	33	1	840.88408		889.619	.1673E-03	1.071
-1	1	8	31	2	840.96064		771.368	.5830E-03	1.068
-1	1	8	31	0	840.98974		771.363	.1459E-03	1.069
1	1	2	10	2	841.02352	36	79.405	.1386E-01	.985
1	1	2	10	0	841.02650		79.399	.3465E-02	.985
-1	1	7	29	3	841.05611		662.269	.2434E-03	1.067
-1	1	7	29	1	841.06884		662.263	.9737E-03	1.067
1	-1	15	17	3	841.10039		651.771	.6025E-05	.978
1	-1	15	17	1	841.10208		651.766	.3013E-05	.978
-1	1	6	27	2	841.16450		562.329	.7780E-03	1.066
-1	1	6	27	0	841.18356		562.323	.1558E-02	1.067
1	1	3	8	3	841.18942	-18	64.856	.1575E-01	.995
1	1	3	8	1	841.19145		64.851	.7875E-02	.995
-1	1	5	25	3	841.27551		471.566	.5956E-03	1.066
-1	1	5	25	1	841.28444	-53	471.560	.2385E-02	1.067
1	-1	16	19	2	841.35228		762.057	.9428E-05	.976
1	-1	16	19	0	841.35417		762.051	.2357E-05	.976
1	1	4	6	2	841.36473	31	59.525	.1766E-01	.999
1	1	4	6	0	841.36660		59.520	.4415E-02	.999
-1	1	4	23	2	841.39793	37	389.980	.3500E-02	1.068
-1	1	4	23	0	841.41023	-85	389.975	.8758E-03	1.069
-1	1	3	21	3	841.52398	-10	317.588	.4936E-02	1.072
-1	1	3	21	1	841.53015	96	317.582	.2470E-02	1.073
1	-1	17	21	3	841.60975		881.503	.2375E-05	.973
1	-1	17	21	1	841.61167		881.497	.9499E-05	.973
-1	1	2	19	2	841.65964	-11	254.388	.6725E-02	1.084
-1	1	2	19	0	841.66739	83	254.383	.1683E-02	1.085
1	1	0	15	2	841.72524		155.605	.4991E-02	1.000
1	1	0	15	0	841.72679	22	155.599	.9982E-02	1.000
-1	1	1	17	3	841.79670		200.394	.2257E-02	1.125
-1	1	1	17	1	841.80080	-55	200.389	.9045E-02	1.127

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	0	8	35	2	841.81171	14	944.544	.8779E-03	1.049
1	0	8	35	0	841.82101		944.538	.2195E-03	1.049
1	-1	18	23	2	841.87510		1010.091	.3848E-05	.970
1	-1	18	23	0	841.87732		1010.085	.7695E-05	.970
1	0	8	34	2	841.90029	25	899.325	.1058E-02	1.046
1	0	8	34	0	841.90916		899.320	.2644E-03	1.046
1	0	8	33	2	841.98652	57	855.389	.1266E-02	1.044
1	0	8	33	0	841.99498		855.384	.3164E-03	1.044
-1	1	9	34	3	842.06376		933.558	.2842E-03	1.073
1	0	8	32	2	842.07039	30	812.737	.1502E-02	1.041
1	0	8	32	0	842.07844		812.731	.3755E-03	1.041
-1	1	9	34	1	842.08236		933.552	.1422E-03	1.074
1	1	1	13	3	842.12783		120.030	.2815E-02	.940
1	1	1	13	1	842.13099	-12	120.025	.1125E-01	.939
1	-1	19	25	3	842.14570		1147.817	.1353E-05	.968
1	-1	19	25	1	842.14787		1147.811	.5405E-05	.967
1	0	8	31	2	842.15189	99	771.368	.1768E-02	1.038
1	0	8	31	0	842.15954		771.363	.4421E-03	1.038
-1	1	8	32	2	842.16435		812.737	.5030E-03	1.072
-1	1	8	32	0	842.19465		812.731	.1258E-03	1.072
1	0	8	30	2	842.23099	22	731.285	.2068E-02	1.036
1	0	8	30	0	842.23825		731.279	.5170E-03	1.036
-1	1	7	30	3	842.26563		701.069	.2128E-03	1.070
-1	1	7	30	1	842.27895		701.063	.8519E-03	1.071
1	1	2	11	2	842.28925	42	93.668	.1366E-01	.982
1	1	2	11	0	842.29251		93.663	.3411E-02	.981
1	0	8	29	2	842.30768	-83	692.487	.2397E-02	1.033
1	0	8	29	0	842.31456		692.481	.5992E-03	1.033
-1	1	6	28	2	842.38000		598.557	.6903E-03	1.070
1	0	8	28	2	842.38196	40	654.976	.2758E-02	1.031
1	0	8	28	0	842.38847		654.970	.6895E-03	1.031
-1	1	6	28	0	842.40003	-469*	598.551	.1382E-02	1.071
1	0	8	27	2	842.45380		618.752	.3148E-02	1.029
1	0	8	27	0	842.45995		618.746	.7869E-03	1.029
1	1	3	9	3	842.46018	-17	76.527	.1563E-01	.994
1	1	3	9	1	842.46234		76.522	.7817E-02	.994
-1	1	5	26	3	842.49670		505.219	.5359E-03	1.070
-1	1	5	26	1	842.50610	186*	505.213	.2146E-02	1.071

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	0	8	26	2	842.52319	12	583.816	.3558E-02	1.026
1	0	8	26	0	842.52899		583.810	.8904E-03	1.027
1	0	8	25	2	842.59012	18	550.168	.3990E-02	1.024
1	0	8	25	0	842.59558		550.162	.9976E-03	1.024
-1	1	4	24	2	842.62490	-94	421.055	.3193E-02	1.072
-1	1	4	24	0	842.63794		421.050	.7990E-03	1.073
1	1	4	7	2	842.64072	42	68.603	.1748E-01	.998
1	1	4	7	0	842.64275		68.598	.4371E-02	.998
1	0	8	24	2	842.65458	7	517.809	.4435E-02	1.022
1	0	8	24	0	842.65971		517.803	.1109E-02	1.022
1	-1	16	18	2	842.69350		737.463	.3750E-05	.977
1	-1	16	18	0	842.69524		737.458	.9376E-06	.977
1	0	8	23	2	842.71655	10	486.740	.4882E-02	1.020
1	0	8	23	0	842.72137		486.734	.1221E-02	1.020
-1	1	3	22	3	842.75642	39	346.082	.4574E-02	1.078
-1	1	3	22	1	842.76294	66	346.077	.2287E-02	1.078
1	0	8	22	2	842.77603	32	456.961	.5322E-02	1.018
1	0	8	22	0	842.78055		456.956	.1332E-02	1.019
1	1	5	5	3	842.82782		69.903	.4912E-02	1.000
1	1	5	5	1	842.82942	34	69.898	.1965E-01	1.000
1	0	8	21	2	842.83300	-325*	428.473	.5746E-02	1.017
1	0	8	21	0	842.83722		428.468	.1436E-02	1.017
1	0	8	20	2	842.88746	-2	401.276	.6129E-02	1.015
1	0	8	20	0	842.89140		401.271	.1532E-02	1.015
-1	1	2	20	2	842.89741	-5	280.299	.6328E-02	1.092
-1	1	2	20	0	842.90568	101	280.294	.1583E-02	1.093
1	0	8	19	2	842.93938	-58	375.372	.6458E-02	1.013
1	0	8	19	0	842.94305		375.366	.1615E-02	1.013
1	1	0	16	2	842.94688		176.343	.4784E-02	1.000
1	1	0	16	0	842.94844	12	176.338	.9568E-02	1.000
1	-1	17	20	3	842.95567		854.331	.1427E-05	.974
1	-1	17	20	1	842.95749		854.325	.5710E-05	.974
1	0	8	18	2	842.98877	32	350.759	.6723E-02	1.012
1	0	8	18	0	842.99218		350.754	.1681E-02	1.012
1	0	8	17	2	843.03562	25	327.439	.6888E-02	1.010
-1	1	1	18	3	843.03869		223.720	.2161E-02	1.138
1	0	8	17	0	843.03878		327.434	.1722E-02	1.010
-1	1	1	18	1	843.04303	-36	223.715	.8660E-02	1.140

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i	ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	0	8	16	2	843.07991	25	305.413	.6946E-02	1.009	-1	1	3	23	3	843.98554	191*	375.868	.4199E-02	1.084
1	0	8	16	0	843.08284		305.407	.1737E-02	1.009	-1	1	3	23	1	843.99243		375.862	.2100E-02	1.084
1	0	8	15	2	843.12163	42	284.679	.6866E-02	1.008	1	1	5	6	3	844.10633		77.684	.4799E-02	1.000
1	0	8	15	0	843.12434		284.674	.1717E-02	1.008	1	1	5	6	1	844.10800	-36	77.679	.1919E-01	1.000
1	0	8	14	2	843.16079	29	265.240	.6617E-02	1.006	-1	1	2	21	2	844.13182	-9	307.503	.5899E-02	1.100
1	0	8	14	0	843.16329		265.235	.1654E-02	1.006	-1	1	2	21	0	844.14062	0	307.497	.1476E-02	1.101
1	0	8	13	2	843.19737	21	247.096	.6184E-02	1.005	1	1	0	17	2	844.16389		198.375	.4543E-02	1.000
1	0	8	13	0	843.19968		247.090	.1546E-02	1.005	1	1	0	17	0	844.16545	23	198.370	.9086E-02	1.000
1	-1	18	22	2	843.22562		980.343	.2801E-05	.972	-1	1	1	19	3	844.27710		248.339	.2051E-02	1.152
1	-1	18	22	0	843.22769		980.338	.5603E-05	.972	-1	1	1	19	1	844.28167	-44	248.334	.8213E-02	1.153
1	0	8	12	2	843.23136	21	230.245	.5533E-02	1.004	1	-1	17	19	3	844.29934		828.449	.5705E-06	.976
1	0	8	12	0	843.23349		230.240	.1383E-02	1.004	1	-1	17	19	1	844.30105		828.444	.2282E-05	.976
1	0	8	11	2	843.26276	22	214.690	.4631E-02	1.003	-1	1	8	34	2	844.56159		899.325	.3647E-03	1.079
1	0	8	11	0	843.26472		214.685	.1158E-02	1.003	1	-1	18	21	2	844.57394		951.885	.1691E-05	.973
1	0	8	10	2	843.29157	19	200.430	.3441E-02	1.002	1	-1	18	21	0	844.57585		951.880	.3382E-05	.973
1	0	8	10	0	843.29338		200.425	.8603E-03	1.002	-1	1	8	34	0	844.59421		899.320	.9128E-04	1.080
1	0	8	9	2	843.31777	10	187.466	.1918E-02	1.001	1	0	9	35	3	844.60969		978.773	.7302E-03	1.043
1	0	8	9	0	843.31944		187.461	.4795E-03	1.001	1	0	9	35	1	844.61596		978.767	.3651E-03	1.043
-1	1	8	33	2	843.36468		855.389	.4299E-03	1.075	1	1	1	15	3	844.64315		157.624	.2570E-02	.921
1	1	1	14	3	843.38672		138.180	.2701E-02	.930	1	1	1	15	1	844.64683	-51	157.618	.1027E-01	.920
1	1	1	14	1	843.39013	-77	138.174	.1080E-01	.930	-1	1	7	32	3	844.67457		782.526	.1587E-03	1.078
-1	1	8	33	0	843.39615		855.384	.1076E-03	1.076	-1	1	7	32	1	844.68905		782.520	.6356E-03	1.079
-1	1	7	31	3	843.47180		741.155	.1846E-03	1.074	1	0	9	34	3	844.69924		933.558	.8796E-03	1.041
-1	1	7	31	1	843.48570		741.149	.7389E-03	1.075	1	0	9	34	1	844.70526		933.552	.4398E-03	1.041
1	-1	19	24	3	843.50084		1115.497	.1103E-05	.969	1	0	9	33	3	844.78640		889.625	.1051E-02	1.038
1	-1	19	24	1	843.50289		1115.491	.4412E-05	.969	1	0	9	33	1	844.79216		889.619	.5253E-03	1.038
1	1	2	12	2	843.55231	31	109.227	.1332E-01	.978	-1	1	6	30	2	844.80097		674.875	.5294E-03	1.078
1	1	2	12	0	843.55587		109.222	.3331E-02	.978	1	1	2	13	2	844.81269	35	126.081	.1288E-01	.974
-1	1	6	29	2	843.59217		636.073	.6071E-03	1.074	1	1	2	13	0	844.81657		126.076	.3221E-02	.974
-1	1	6	29	0	843.61317	-78	636.067	.1215E-02	1.075	-1	1	6	30	0	844.82293		674.869	.1060E-02	1.079
-1	1	5	27	3	843.71457		540.161	.4783E-03	1.075	1	-1	19	23	3	844.85380		1084.465	.8059E-06	.970
-1	1	5	27	1	843.72445	423*	540.155	.1913E-02	1.075	1	-1	19	23	1	844.85574		1084.459	.3223E-05	.970
1	1	3	10	3	843.72822	-29	89.495	.1539E-01	.992	1	0	9	32	3	844.87116	177	846.975	.1246E-02	1.036
1	1	3	10	1	843.73052		89.489	.7694E-02	.992	1	0	9	32	1	844.87667		846.969	.6232E-03	1.036
-1	1	4	25	2	843.84857	25	453.420	.2889E-02	1.077	-1	1	5	28	3	844.92909		576.390	.4228E-03	1.079
-1	1	4	25	0	843.86236	8	453.415	.7230E-03	1.078	-1	1	5	28	1	844.93945	-50	576.385	.1693E-02	1.080
1	1	4	8	2	843.91400	40	78.978	.1727E-01	.998	1	0	9	31	3	844.95350	246*	805.609	.1466E-02	1.033
1	1	4	8	0	843.91619		78.972	.4312E-02	.997	1	0	9	31	1	844.95876		805.603	.7335E-03	1.034

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i	ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	1	3	11	3	844.99352	2	103.758	.1503E-01	.990	1	0	9	19	3	845.74832	-12	409.640	.5155E-02	1.011
1	1	3	11	1	844.99598		103.752	.7516E-02	.990	1	0	9	19	1	845.75110		409.634	.2577E-02	1.011
1	0	9	30	3	845.03341		765.529	.1711E-02	1.031	1	0	9	18	3	845.79812	-8	385.029	.5319E-02	1.010
1	0	9	30	1	845.03842		765.523	.8557E-03	1.031	1	0	9	18	1	845.80074		385.023	.2659E-02	1.010
-1	1	4	26	2	845.06889	19	487.075	.2594E-02	1.083	1	0	9	17	3	845.84534	32	361.710	.5395E-02	1.009
-1	1	4	26	0	845.08343		487.069	.6491E-03	1.084	1	0	9	17	1	845.84781		361.705	.2698E-02	1.009
1	0	9	29	3	845.11087	8	726.733	.1982E-02	1.029	-1	1	7	33	3	845.87391		825.181	.1354E-03	1.082
1	0	9	29	1	845.11565		726.728	.9911E-03	1.029	-1	1	7	33	1	845.88897		825.175	.5416E-03	1.082
1	1	4	9	2	845.18453	63	90.649	.1695E-01	.997	1	0	9	16	3	845.88999	-64	339.685	.5358E-02	1.007
1	0	9	28	3	845.18587	-72	689.225	.2277E-02	1.027	1	0	9	16	1	845.89231		339.680	.2679E-02	1.007
1	1	4	9	0	845.18692		90.643	.4233E-02	.996	1	1	1	16	3	845.89716		178.362	.2418E-02	.910
1	0	9	28	1	845.19042		689.219	.1138E-02	1.027	1	1	1	16	1	845.90112	-25	178.357	.9662E-02	.909
-1	1	3	24	3	845.21131	32	406.944	.3821E-02	1.090	1	-1	18	20	2	845.92001		924.717	.6776E-06	.974
-1	1	3	24	1	845.21857	257*	406.938	.1912E-02	1.091	1	-1	18	20	0	845.92177		924.711	.1355E-05	.974
1	0	9	27	3	845.25840	139	653.003	.2593E-02	1.025	1	0	9	15	3	845.93204	-25	318.954	.5197E-02	1.006
1	0	9	27	1	845.26272		652.998	.1296E-02	1.025	1	0	9	15	1	845.93424		318.948	.2598E-02	1.006
1	0	9	26	3	845.32845	141	618.069	.2927E-02	1.023	1	0	9	14	3	845.97151	-2	299.516	.4882E-02	1.005
1	0	9	26	1	845.33255		618.064	.1464E-02	1.023	1	0	9	14	1	845.97357		299.510	.2441E-02	1.005
-1	1	2	22	2	845.36282	-11	335.997	.5449E-02	1.108	-1	1	6	31	2	846.00637		714.963	.4577E-03	1.082
-1	1	2	22	0	845.37214		335.992	.1364E-02	1.109	1	0	9	13	3	846.00837	-23	281.372	.4389E-02	1.004
1	1	0	18	2	845.37624		221.701	.4275E-02	1.000	1	0	9	13	1	846.01031		281.367	.2194E-02	1.004
1	1	0	18	0	845.37781	-73	221.696	.8549E-02	1.000	-1	1	6	31	0	846.02927	-5	714.957	.9163E-03	1.083
1	1	5	7	3	845.38211		86.762	.4690E-02	.999	1	0	9	12	3	846.04262	-26	264.523	.3689E-02	1.003
1	1	5	7	1	845.38387	-44	86.757	.1876E-01	.999	1	0	9	12	1	846.04445		264.518	.1844E-02	1.003
1	0	9	25	3	845.39600	84	584.424	.3274E-02	1.021	1	1	2	14	2	846.07039	142	144.230	.1235E-01	.970
1	0	9	25	1	845.39990		584.418	.1637E-02	1.021	1	0	9	11	3	846.07426	-303*	248.969	.2750E-02	1.002
1	0	9	24	3	845.46104	-18	552.067	.3628E-02	1.019	1	1	2	14	0	846.07462		144.225	.3084E-02	.969
1	0	9	24	1	845.46474		552.062	.1814E-02	1.019	1	0	9	11	1	846.07599		248.964	.1375E-02	1.002
-1	1	1	20	3	845.51186		274.250	.1929E-02	1.166	1	0	9	10	3	846.10328	-51	234.710	.1537E-02	1.001
-1	1	1	20	1	845.51666	-59	274.245	.7730E-02	1.168	1	0	9	10	1	846.10492		234.705	.7684E-03	1.001
1	0	9	23	3	845.52357	1	521.000	.3980E-02	1.017	-1	1	5	29	3	846.14022		613.908	.3709E-03	1.084
1	0	9	23	1	845.52707		520.995	.1992E-02	1.018	-1	1	5	29	1	846.15105	-96	613.902	.1484E-02	1.084
1	0	9	22	3	845.58357	-30	491.224	.4324E-02	1.016	1	-1	19	22	3	846.20456		1054.722	.4890E-06	.972
1	0	9	22	1	845.58688		491.218	.2162E-02	1.016	1	-1	19	22	1	846.20639		1054.716	.1956E-05	.972
1	0	9	21	3	845.64104	-33	462.737	.4641E-02	1.014	1	1	3	12	3	846.25609	-9	119.316	.1457E-01	.988
1	0	9	21	1	845.64417		462.732	.2321E-02	1.014	1	1	3	12	1	846.25872		119.311	.7286E-02	.988
1	0	9	20	3	845.69596	-50	435.543	.4926E-02	1.013	-1	1	4	27	2	846.28583	18	522.018	.2306E-02	1.088
1	0	9	20	1	845.69891		435.537	.2463E-02	1.013	-1	1	4	27	0	846.30112	95	522.012	.5772E-03	1.089

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
-1	1	3	25	3	846.43368	43	439.310	.3447E-02	1.096
-1	1	3	25	1	846.44130	-1	439.304	.1725E-02	1.097
1	1	4	10	2	846.45232	35	103.615	.1653E-01	.995
1	1	4	10	0	846.45492		103.610	.4131E-02	.995
1	1	0	19	2	846.58391		246.320	.3987E-02	1.000
1	1	0	19	0	846.58548	23	246.315	.7973E-02	1.000
-1	1	2	23	2	846.59034	-568*	365.783	.4990E-02	1.116
-1	1	2	23	0	846.60020	15	365.778	.1250E-02	1.118
1	1	5	8	3	846.65514		97.137	.4580E-02	.999
1	1	5	8	1	846.65701	-31	97.131	.1832E-01	.999
-1	1	1	21	3	846.74286		301.454	.1800E-02	1.181
-1	1	1	21	1	846.74789	-70	301.449	.7211E-02	1.183
1	1	6	6	2	846.86668		99.873	.1009E-01	1.000
1	1	6	6	0	846.86833	81	99.868	.2017E-01	1.000
-1	1	7	34	3	847.06979		869.120	.1146E-03	1.086
-1	1	7	34	1	847.08542		869.114	.4583E-03	1.086
1	1	1	17	3	847.14878		200.394	.2255E-02	.899
1	1	1	17	1	847.15303	-51	200.389	.9011E-02	.898
-1	1	6	32	2	847.20831		756.336	.3929E-03	1.087
-1	1	6	32	0	847.23215	-140	756.330	.7866E-03	1.088
1	1	2	15	2	847.32542	32	163.674	.1173E-01	.965
1	1	2	15	0	847.33002		163.669	.2932E-02	.965
-1	1	5	30	3	847.34791		652.711	.3227E-03	1.089
-1	1	5	30	1	847.35922	-123	652.706	.1291E-02	1.089
1	0	10	35	2	847.42882		1017.019	.5949E-03	1.038
1	0	10	35	0	847.43691		1017.013	.1487E-03	1.038
-1	1	4	28	2	847.49934	12	558.249	.2034E-02	1.093
-1	1	4	28	0	847.51536		558.243	.5094E-03	1.095
1	1	3	13	3	847.51591	-12	136.170	.1400E-01	.985
1	1	3	13	1	847.51871		136.165	.7001E-02	.985
1	0	10	34	2	847.51916		971.806	.7158E-03	1.036
1	0	10	34	0	847.52688		971.801	.1790E-03	1.036
1	-1	19	21	3	847.55308		1026.268	.1967E-06	.973
1	-1	19	21	1	847.55480		1026.262	.7870E-06	.973
1	0	10	33	2	847.60707	57	927.877	.8547E-03	1.034
1	0	10	33	0	847.61442		927.871	.2137E-03	1.034
-1	1	3	26	3	847.65259	-79	472.965	.3086E-02	1.103
-1	1	3	26	1	847.66058	132	472.959	.1544E-02	1.104
1	0	10	32	2	847.69254	314*	885.230	.1013E-02	1.032
1	0	10	32	0	847.69954		885.224	.2532E-03	1.032
1	1	4	11	2	847.71734	39	117.878	.1603E-01	.994
1	1	4	11	0	847.72017		117.873	.4006E-02	.994
1	0	10	31	2	847.77555	-6	843.868	.1190E-02	1.030
1	0	10	31	0	847.78220		843.862	.2975E-03	1.030
1	1	0	20	2	847.78689		272.232	.3686E-02	1.000
1	1	0	20	0	847.78846	-41	272.226	.7373E-02	1.000
-1	1	2	24	2	847.81432	-5	396.860	.4534E-02	1.125
-1	1	2	24	0	847.82471	-77	396.855	.1135E-02	1.127
1	0	10	30	2	847.85610	282*	803.790	.1386E-02	1.027
1	0	10	30	0	847.86241		803.785	.3468E-03	1.028
1	1	5	9	3	847.92541		108.807	.4453E-02	.998
1	1	5	9	1	847.92739	-68	108.802	.1781E-01	.998
1	0	10	29	2	847.93417		764.998	.1604E-02	1.026
1	0	10	29	0	847.94015		764.993	.4010E-03	1.026
-1	1	1	22	3	847.97001		329.949	.1664E-02	1.196
-1	1	1	22	1	847.97527	12	329.944	.6668E-02	1.198
1	0	10	28	2	848.00975	36	727.492	.1838E-02	1.024
1	0	10	28	0	848.01541		727.487	.4596E-03	1.024
1	0	10	27	2	848.08283	25	691.274	.2089E-02	1.022
1	0	10	27	0	848.08817		691.268	.5222E-03	1.022
1	1	6	7	2	848.14228		108.951	.9758E-02	1.000
1	1	6	7	0	848.14406	78	108.945	.1952E-01	1.000
1	0	10	26	2	848.15340	103	656.342	.2351E-02	1.020
1	0	10	26	0	848.15843		656.337	.5878E-03	1.020
1	0	10	25	2	848.22144	14	622.699	.2622E-02	1.018
1	0	10	25	0	848.22618		622.694	.6555E-03	1.018
1	0	10	24	2	848.28695	15	590.345	.2897E-02	1.017
1	0	10	24	0	848.29141		590.340	.7243E-03	1.017
1	0	10	23	2	848.34992	-111	559.281	.3165E-02	1.015
1	0	10	23	0	848.35410		559.275	.7912E-03	1.015
1	1	1	18	3	848.39804		223.720	.2083E-02	.887
1	1	1	18	1	848.40262	-46	223.715	.8322E-02	.886
-1	1	6	33	2	848.40677		798.993	.3343E-03	1.091
1	0	10	22	2	848.41034	33	529.506	.3422E-02	1.014
1	0	10	22	0	848.41425		529.501	.8554E-03	1.014
-1	1	6	33	0	848.43153	1	798.987	.6692E-03	1.092

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	0	10	21	2	848.46819	36	501.023	.3651E-02	1.012
1	0	10	21	0	848.47184		501.017	.9127E-03	1.012
1	0	10	20	2	848.52348	47	473.830	.3847E-02	1.011
1	0	10	20	0	848.52688		473.824	.9617E-03	1.011
-1	1	5	31	3	848.55213		692.801	.2782E-03	1.093
-1	1	5	31	1	848.56390	-33	692.795	.1114E-02	1.094
1	0	10	19	2	848.57618	131	447.929	.3993E-02	1.010
1	1	2	16	2	848.57778	-28	184.412	.1105E-01	.960
1	0	10	19	0	848.57935		447.923	.9983E-03	1.010
1	1	2	16	0	848.58277		184.407	.2759E-02	.959
1	0	10	18	2	848.62630	35	423.320	.4070E-02	1.008
1	0	10	18	0	848.62925		423.314	.1018E-02	1.008
1	0	10	17	2	848.67383	30	400.003	.4070E-02	1.007
1	0	10	17	0	848.67656		399.998	.1017E-02	1.007
-1	1	4	29	2	848.70936	-14	595.767	.1780E-02	1.099
1	0	10	16	2	848.71875	48	377.980	.3969E-02	1.006
1	0	10	16	0	848.72128		377.974	.9921E-03	1.006
-1	1	4	29	0	848.72613		595.762	.4455E-03	1.100
1	0	10	15	2	848.76107	56	357.250	.3748E-02	1.005
1	0	10	15	0	848.76340		357.244	.9369E-03	1.005
1	1	3	14	3	848.77297	-1	154.319	.1336E-01	.983
1	1	3	14	1	848.77597		154.314	.6682E-02	.983
1	0	10	14	2	848.80077	26	337.813	.3385E-02	1.004
1	0	10	14	0	848.80293		337.808	.8463E-03	1.004
1	0	10	13	2	848.83785	9	319.671	.2858E-02	1.003
1	0	10	13	0	848.83984		319.666	.7144E-03	1.003
-1	1	3	27	3	848.86798	348*	507.909	.2739E-02	1.110
1	0	10	12	2	848.87231	-84	302.824	.2139E-02	1.002
1	0	10	12	0	848.87414		302.818	.5347E-03	1.002
-1	1	3	27	1	848.87635		507.903	.1371E-02	1.111
1	0	10	11	2	848.90414	31	287.271	.1199E-02	1.001
1	0	10	11	0	848.90582		287.265	.2997E-03	1.001
1	1	4	12	2	848.97959	275*	133.436	.1544E-01	.993
1	1	4	12	0	848.98267		133.431	.3855E-02	.992
1	1	0	21	2	848.98514		299.435	.3380E-02	1.000
1	1	0	21	0	848.98672	-333*	299.430	.6761E-02	1.000
-1	1	2	25	2	849.03470	-19	429.227	.4085E-02	1.134
-1	1	2	25	0	849.04562	26	429.221	.1023E-02	1.136

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	1	5	10	3	849.19291		121.773	.4310E-02	.997
-1	1	1	23	3	849.19323		359.736	.1527E-02	1.212
1	1	5	10	1	849.19500	29	121.768	.1724E-01	.997
-1	1	1	23	1	849.19871	-342*	359.730	.6118E-02	1.214
1	1	6	8	2	849.41512		119.325	.9430E-02	.999
1	1	6	8	0	849.41704	82	119.319	.1886E-01	.999
-1	1	6	34	2	849.60169		842.934	.2824E-03	1.096
-1	1	6	34	0	849.62736		842.928	.5653E-03	1.097
1	1	1	19	3	849.64499		248.339	.1907E-02	.875
1	1	1	19	1	849.64991	-39	248.334	.7620E-02	.874
-1	1	5	32	3	849.75282		734.176	.2382E-03	1.098
-1	1	5	32	1	849.76507	-63	734.170	.9537E-03	1.099
1	1	2	17	2	849.82748	17	206.444	.1032E-01	.955
1	1	2	17	0	849.83289		206.439	.2577E-02	.954
-1	1	4	30	2	849.91585	-125	634.573	.1546E-02	1.105
-1	1	4	30	0	849.93336		634.567	.3868E-03	1.106
1	1	3	15	3	850.02726	-3	173.762	.1264E-01	.980
1	1	3	15	1	850.03047		173.757	.6322E-02	.980
-1	1	3	28	3	850.07981	35	544.141	.2412E-02	1.117
-1	1	3	28	1	850.08855	20	544.135	.1207E-02	1.118
1	1	0	22	2	850.17865		327.931	.3074E-02	1.000
1	1	0	22	0	850.18024	9	327.925	.6149E-02	1.000
1	1	4	13	2	850.23905	41	150.290	.1475E-01	.991
1	1	4	13	0	850.24239		150.284	.3688E-02	.991
-1	1	2	26	2	850.25141	10	462.883	.3653E-02	1.144
1	0	11	35	3	850.26235		1059.286	.1187E-03	1.034
-1	1	2	26	0	850.26286	-215*	462.877	.9149E-03	1.146
1	0	11	35	1	850.26796		1059.280	.4747E-03	1.034
1	0	11	34	3	850.35354		1014.078	.1426E-03	1.032
1	0	11	34	1	850.35892		1014.072	.5705E-03	1.032
-1	1	1	24	3	850.41242		390.813	.1389E-02	1.228
-1	1	1	24	1	850.41812	-125	390.807	.5567E-02	1.230
1	0	11	33	3	850.44228		970.152	.1701E-03	1.030
1	0	11	33	1	850.44743		970.146	.6802E-03	1.030
1	1	5	11	3	850.45760		136.035	.4149E-02	.996
1	1	5	11	1	850.45983	-45	136.030	.1659E-01	.996
1	0	11	32	3	850.52853		927.509	.2012E-03	1.028
1	0	11	32	1	850.53346		927.503	.8046E-03	1.028

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	0	11	31	3	850.61230		886.150	.2360E-03	1.026
1	0	11	31	1	850.61700		886.144	.9440E-03	1.026
1	1	6	9	2	850.68517		130.995	.9102E-02	.999
1	1	6	9	0	850.68725	73	130.989	.1820E-01	.999
1	0	11	30	3	850.69357		846.076	.2746E-03	1.024
1	0	11	30	1	850.69806	-62	846.070	.1098E-02	1.024
1	0	11	29	3	850.77233		807.287	.3171E-03	1.023
1	0	11	29	1	850.77661	-95	807.281	.1268E-02	1.023
1	0	11	28	3	850.84857		769.784	.3625E-03	1.021
1	0	11	28	1	850.85264	-101	769.779	.1450E-02	1.021
1	1	1	20	3	850.88966		274.250	.1730E-02	.862
1	1	1	20	1	850.89494	-40	274.245	.6912E-02	.861
1	1	7	7	3	850.91890		135.175	.4926E-02	1.000
1	1	7	7	1	850.92051	-15	135.169	.1970E-01	1.000
1	0	11	27	3	850.92228		733.568	.4107E-03	1.019
1	0	11	27	1	850.92615		733.563	.1643E-02	1.019
-1	1	5	33	3	850.94994		776.835	.2025E-03	1.104
-1	1	5	33	1	850.96266	-148	776.830	.8100E-03	1.104
1	0	11	26	3	850.99344		698.640	.4613E-03	1.018
1	0	11	26	1	850.99712	-131	698.635	.1845E-02	1.018
1	0	11	25	3	851.06206		665.000	.5125E-03	1.016
1	0	11	25	1	851.06554	-121	664.994	.2050E-02	1.016
1	1	2	18	2	851.07452	-2	229.770	.9552E-02	.949
1	1	2	18	0	851.08037		229.764	.2386E-02	.948
-1	1	4	31	2	851.11877	32	674.664	.1332E-02	1.111
1	0	11	24	3	851.12811		632.649	.5639E-03	1.015
1	0	11	24	1	851.13142	-69	632.643	.2255E-02	1.015
-1	1	4	31	0	851.13700		674.658	.3332E-03	1.112
1	0	11	23	3	851.19159		601.587	.6128E-03	1.013
1	0	11	23	1	851.19472	-81	601.581	.2451E-02	1.013
1	0	11	22	3	851.25249		571.815	.6585E-03	1.012
1	0	11	22	1	851.25546	-8	571.809	.2634E-02	1.012
1	1	3	16	3	851.27879	-21	194.500	.1187E-01	.977
1	1	3	16	1	851.28222		194.495	.5935E-02	.977
-1	1	3	29	3	851.28803	148	581.661	.2107E-02	1.124
-1	1	3	29	1	851.29714	-8	581.655	.1055E-02	1.125
1	0	11	21	3	851.31081		543.333	.6974E-03	1.010
1	0	11	21	1	851.31361	-56	543.328	.2792E-02	1.011
1	0	11	20	3	851.36653		516.143	.7282E-03	1.009
1	1	0	23	2	851.36741		357.717	.2773E-02	1.000
1	1	0	23	0	851.36900	17	357.712	.5547E-02	1.000
1	0	11	20	1	851.36917	-105	516.137	.2913E-02	1.009
1	0	11	19	3	851.41965		490.244	.7474E-03	1.008
1	0	11	19	1	851.42214	-22	490.239	.2990E-02	1.008
-1	1	2	27	2	851.46439	-60	497.827	.3241E-02	1.154
1	0	11	18	3	851.47015		465.637	.7515E-03	1.007
1	0	11	18	1	851.47250	-57	465.632	.3006E-02	1.007
-1	1	2	27	0	851.47636		497.822	.8117E-03	1.156
1	1	4	14	2	851.49570	50	168.438	.1400E-01	.989
1	1	4	14	0	851.49933		168.432	.3499E-02	.989
1	0	11	17	3	851.51804		442.323	.7369E-03	1.006
1	0	11	17	1	851.52026	-69	442.317	.2948E-02	1.006
1	0	11	16	3	851.56331		420.301	.6995E-03	1.005
1	0	11	16	1	851.56540	-21	420.296	.2798E-02	1.005
1	0	11	15	3	851.60594		399.573	.6350E-03	1.004
1	0	11	15	1	851.60791	-79	399.567	.2540E-02	1.004
-1	1	1	25	3	851.62748		423.180	.1255E-02	1.245
-1	1	1	25	1	851.63339	-58	423.174	.5028E-02	1.247
1	0	11	14	3	851.64594		380.138	.5386E-03	1.003
1	0	11	14	1	851.64779	-71	380.133	.2154E-02	1.003
1	0	11	13	3	851.68330		361.997	.4048E-03	1.002
1	0	11	13	1	851.68504	204*	361.992	.1619E-02	1.002
1	0	11	12	3	851.71801		345.151	.2276E-03	1.001
1	1	5	12	3	851.71949		151.593	.3970E-02	.995
1	0	11	12	1	851.71965		345.146	.9105E-03	1.001
1	1	5	12	1	851.72187	-61	151.588	.1588E-01	.995
1	1	6	10	2	851.95243		143.960	.8744E-02	.998
1	1	6	10	0	851.95469	95	143.955	.1749E-01	.998
1	1	1	21	3	852.13210		301.454	.1554E-02	.848
1	1	1	21	1	852.13776	-42	301.449	.6210E-02	.847
-1	1	5	34	3	852.14346		820.778	.1707E-03	1.109
-1	1	5	34	1	852.15663		820.773	.6833E-03	1.110
1	1	7	8	3	852.19149		145.548	.4725E-02	1.000
1	1	7	8	1	852.19319	-24	145.542	.1890E-01	1.000
-1	1	4	32	2	852.31806	83	716.040	.1138E-02	1.117
1	1	2	19	2	852.31891	-1	254.388	.8773E-02	.943

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	1	2	19	0	852.32522		254.383	.2191E-02	.942
-1	1	4	32	0	852.33701		716.034	.2848E-03	1.118
-1	1	3	30	3	852.49257	65	620.467	.1826E-02	1.131
-1	1	3	30	1	852.50205	-19	620.461	.9139E-03	1.132
1	1	3	17	3	852.52755	-6	216.532	.1105E-01	.973
1	1	3	17	1	852.53121		216.526	.5524E-02	.973
1	1	0	24	2	852.55139		388.794	.2482E-02	1.000
1	1	0	24	0	852.55298	-34	388.789	.4965E-02	1.000
-1	1	2	28	2	852.67356	-1	534.060	.2852E-02	1.164
-1	1	2	28	0	852.68605	51	534.055	.7143E-03	1.166
1	1	4	15	2	852.74955	58	187.881	.1319E-01	.987
1	1	4	15	0	852.75347		187.875	.3296E-02	.987
-1	1	1	26	3	852.83832		456.836	.1124E-02	1.262
-1	1	1	26	1	852.84443	-193*	456.830	.4504E-02	1.264
1	1	5	13	3	852.97855		168.446	.3775E-02	.994
1	1	5	13	1	852.98108	-49	168.440	.1510E-01	.994
1	0	12	35	2	853.11619		1105.565	.1855E-03	1.031
1	0	12	35	0	853.12328		1105.559	.3710E-03	1.031
1	0	12	34	2	853.20809		1060.361	.2226E-03	1.029
1	0	12	34	0	853.21486		1060.355	.4452E-03	1.029
1	1	6	11	2	853.21687		158.222	.8370E-02	.998
1	1	6	11	0	853.21932	98	158.216	.1674E-01	.998
1	0	12	33	2	853.29750		1016.439	.2650E-03	1.027
1	0	12	33	0	853.30394		1016.433	.5300E-03	1.027
1	1	1	22	3	853.37235		329.949	.1385E-02	.834
1	1	1	22	1	853.37841	-88	329.944	.5535E-02	.833
1	0	12	32	2	853.38441		973.800	.3129E-03	1.025
1	0	12	32	0	853.39053		973.794	.6258E-03	1.025
1	1	7	9	3	853.46128		157.217	.4522E-02	.999
1	1	7	9	1	853.46307	-36	157.212	.1809E-01	.999
1	0	12	31	2	853.46880		932.445	.3664E-03	1.023
1	0	12	31	0	853.47461		932.439	.7328E-03	1.023
-1	1	4	33	2	853.51367	46	758.701	.9652E-03	1.123
-1	1	4	33	0	853.53333		758.695	.2417E-03	1.125
1	0	12	30	2	853.55066		892.374	.4257E-03	1.022
1	0	12	30	0	853.55617		892.369	.8515E-03	1.022
1	1	2	20	2	853.56066	-11	280.299	.7994E-02	.937
1	1	2	20	0	853.56746		280.294	.1996E-02	.936

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	0	12	29	2	853.62998		853.589	.4899E-03	1.020
1	0	12	29	0	853.63520	-50	853.584	.9797E-03	1.020
-1	1	3	31	3	853.69338	24	660.559	.1572E-02	1.139
-1	1	3	31	1	853.70322		660.553	.7866E-03	1.140
1	0	12	28	2	853.70676		816.090	.5590E-03	1.019
1	0	12	28	0	853.71169	-55	816.084	.1118E-02	1.019
1	1	0	25	2	853.73057		421.161	.2204E-02	1.000
1	1	0	25	0	853.73217	-7	421.156	.4409E-02	1.000
1	1	3	18	3	853.77354	-7	239.857	.1022E-01	.970
1	1	3	18	1	853.77744		239.851	.5108E-02	.970
1	0	12	27	2	853.78098		779.878	.6313E-03	1.017
1	0	12	27	0	853.78563	70	779.872	.1263E-02	1.017
1	0	12	26	2	853.85263		744.953	.7064E-03	1.016
1	0	12	26	0	853.85702	-72	744.947	.1413E-02	1.016
-1	1	2	29	2	853.87887	38	571.580	.2491E-02	1.174
-1	1	2	29	0	853.89186		571.575	.6238E-03	1.176
1	0	12	25	2	853.92171		711.316	.7813E-03	1.014
1	0	12	25	0	853.92583	53	711.310	.1563E-02	1.014
1	0	12	24	2	853.98820		678.967	.8551E-03	1.013
1	0	12	24	0	853.99207	272*	678.962	.1710E-02	1.013
1	1	4	16	2	854.00058	47	208.618	.1233E-01	.985
1	1	4	16	0	854.00482		208.612	.3083E-02	.985
-1	1	1	27	3	854.04484		491.781	.1000E-02	1.280
-1	1	1	27	1	854.05114	15	491.776	.4006E-02	1.282
1	0	12	23	2	854.05210		647.908	.9236E-03	1.011
1	0	12	23	0	854.05573	-202*	647.903	.1847E-02	1.011
1	0	12	22	2	854.11340		618.139	.9850E-03	1.010
1	0	12	22	0	854.11679	159	618.134	.1970E-02	1.010
1	0	12	21	2	854.17209		589.660	.1035E-02	1.009
1	0	12	21	0	854.17526	106	589.655	.2069E-02	1.009
1	0	12	20	2	854.22816		562.472	.1068E-02	1.008
1	0	12	20	0	854.23111	-473*	562.467	.2136E-02	1.008
1	1	5	14	3	854.23478		186.593	.3567E-02	.993
1	1	5	14	1	854.23748	-65	186.588	.1427E-01	.993
1	0	12	19	2	854.28161		536.576	.1080E-02	1.007
1	0	12	19	0	854.28435	112	536.570	.2160E-02	1.007
1	0	12	18	2	854.33243		511.971	.1065E-02	1.006
1	0	12	18	0	854.33498	72	511.966	.2130E-02	1.006

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	0	12	17	2	854.38062		488.659	.1016E-02	1.005
1	0	12	17	0	854.38297	100	488.653	.2033E-02	1.005
1	0	12	16	2	854.42616		466.639	.9274E-03	1.004
1	0	12	16	0	854.42833	86	466.634	.1855E-02	1.004
1	0	12	15	2	854.46905		445.913	.7903E-03	1.003
1	0	12	15	0	854.47105	-51	445.908	.1581E-02	1.003
1	1	6	12	2	854.47847		173.779	.7963E-02	.997
1	1	6	12	0	854.48114	116	173.773	.1593E-01	.997
1	0	12	14	2	854.50929		426.480	.5966E-03	1.002
1	0	12	14	0	854.51113	96	426.475	.1193E-02	1.002
1	0	12	13	2	854.54686		408.341	.3368E-03	1.001
1	0	12	13	0	854.54856	34	408.336	.6736E-03	1.001
1	1	1	23	3	854.61047		359.736	.1225E-02	.820
1	1	1	23	1	854.61695	-42	359.730	.4887E-02	.818
-1	1	4	34	2	854.70557	89	802.646	.8124E-03	1.129
-1	1	4	34	0	854.72592		802.640	.2035E-03	1.131
1	1	7	10	3	854.72824		170.182	.4320E-02	.999
1	1	7	10	1	854.73014	-32	170.177	.1728E-01	.999
1	1	2	21	2	854.79980	12	307.503	.7221E-02	.930
1	1	2	21	0	854.80711		307.497	.1803E-02	.929
-1	1	3	32	3	854.89041	40	701.937	.1342E-02	1.147
-1	1	3	32	1	854.90061		701.931	.6718E-03	1.148
1	1	0	26	2	854.90493		454.818	.1943E-02	1.000
1	1	0	26	0	854.90654	-5	454.812	.3885E-02	1.000
1	1	8	8	2	854.98638	30	175.797	.1842E-01	1.000
1	1	8	8	0	854.98804		175.792	.4604E-02	1.000
1	1	3	19	3	855.01675	135	264.475	.9366E-02	.966
1	1	3	19	1	855.02090		264.469	.4683E-02	.966
-1	1	2	30	2	855.08024	-6	610.388	.2160E-02	1.185
-1	1	2	30	0	855.09372	246*	610.382	.5409E-03	1.187
-1	1	1	28	3	855.24694		528.014	.8818E-03	1.297
1	1	4	17	2	855.24877	140	230.649	.1145E-01	.983
1	1	4	17	0	855.25335		230.643	.2860E-02	.982
-1	1	1	28	1	855.25343	-326*	528.009	.3535E-02	1.300
1	1	5	15	3	855.48816		206.036	.3344E-02	.991
1	1	5	15	1	855.49103	-95	206.030	.1338E-01	.991
1	1	6	13	2	855.73723		190.631	.7532E-02	.996
1	1	6	13	0	855.74012	116	190.625	.1506E-01	.996

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	1	1	24	3	855.84649		390.813	.1073E-02	.805
1	1	1	24	1	855.85342	-53	390.807	.4281E-02	.803
1	0	13	35	3	855.98423		1155.861	.7091E-04	1.028
1	0	13	35	1	855.98928		1155.855	.2836E-03	1.028
1	1	7	11	3	855.99236		184.443	.4112E-02	.999
1	1	7	11	1	855.99438	-34	184.438	.1645E-01	.999
1	1	2	22	2	856.03632	12	335.997	.6473E-02	.923
1	1	2	22	0	856.04416		335.992	.1616E-02	.922
1	1	0	27	2	856.07446		489.763	.1699E-02	1.000
1	1	0	27	0	856.07608	21	489.758	.3398E-02	1.000
1	0	13	34	3	856.07692		1110.661	.8495E-04	1.026
1	0	13	34	1	856.08176		1110.655	.3398E-03	1.026
-1	1	3	33	3	856.08360		744.599	.1138E-02	1.155
-1	1	3	33	1	856.09415		744.593	.5694E-03	1.156
1	0	13	33	3	856.16710		1066.744	.1009E-03	1.024
1	0	13	33	1	856.17172		1066.738	.4038E-03	1.024
1	0	13	32	3	856.25473		1024.109	.1191E-03	1.023
1	1	8	9	2	856.25593	86	187.466	.1753E-01	1.000
1	1	3	20	3	856.25718	-40	290.385	.8523E-02	.962
1	1	8	9	0	856.25773		187.461	.4382E-02	1.000
1	0	13	32	1	856.25915		1024.103	.4763E-03	1.023
1	1	3	20	1	856.26160		290.380	.4261E-02	.962
-1	1	2	31	2	856.27760	-22	650.481	.1857E-02	1.195
-1	1	2	31	0	856.29156		650.475	.4655E-03	1.198
1	0	13	31	3	856.33982		982.758	.1391E-03	1.021
1	0	13	31	1	856.34405	-117	982.752	.5564E-03	1.021
1	0	13	30	3	856.42236		942.692	.1611E-03	1.019
1	0	13	30	1	856.42639	-163	942.686	.6443E-03	1.019
-1	1	1	29	3	856.44453		565.535	.7727E-03	1.316
-1	1	1	29	1	856.45119	-66	565.530	.3095E-02	1.318
1	1	4	18	2	856.49413	-1	253.973	.1055E-01	.980
1	1	4	18	0	856.49907		253.968	.2637E-02	.980
1	0	13	29	3	856.50233		903.911	.1850E-03	1.018
1	0	13	29	1	856.50617	-10	903.905	.7399E-03	1.018
1	0	13	28	3	856.57973		866.415	.2102E-03	1.016
1	0	13	28	1	856.58338	-74	866.409	.8415E-03	1.017
1	0	13	27	3	856.65454		830.206	.2366E-03	1.015
1	0	13	27	1	856.65801	169	830.201	.9466E-03	1.015

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	0	13	26	3	856.72676		795.285	.2636E-03	1.014
1	0	13	26	1	856.73006	-97	795.279	.1054E-02	1.014
1	1	5	16	3	856.73867		226.772	.3118E-02	.990
1	1	5	16	1	856.74173	-65	226.767	.1247E-01	.990
1	0	13	25	3	856.79638		761.651	.2900E-03	1.012
1	0	13	25	1	856.79951	56	761.646	.1160E-02	1.012
1	0	13	24	3	856.86338		729.306	.3155E-03	1.011
1	0	13	24	1	856.86635	-98	729.301	.1262E-02	1.011
1	0	13	23	3	856.92778		698.250	.3385E-03	1.010
1	0	13	23	1	856.93058	74	698.245	.1354E-02	1.010
1	0	13	22	3	856.98954		668.484	.3577E-03	1.009
1	0	13	22	1	856.99220		668.479	.1431E-02	1.009
1	1	6	14	2	856.99312		208.778	.7083E-02	.995
1	1	6	14	0	856.99625	102	208.772	.1417E-01	.995
1	0	13	21	3	857.04867		640.008	.3714E-03	1.008
1	0	13	21	1	857.05119	33	640.003	.1485E-02	1.008
1	1	1	25	3	857.08048		423.180	.9313E-03	.789
1	1	1	25	1	857.08787	-33	423.174	.3721E-02	.788
1	0	13	20	3	857.10517		612.823	.3777E-03	1.007
1	0	13	20	1	857.10754	-20	612.817	.1511E-02	1.007
1	0	13	19	3	857.15902		586.929	.3745E-03	1.006
1	0	13	19	1	857.16125	-56	586.924	.1498E-02	1.006
1	0	13	18	3	857.21021		562.327	.3593E-03	1.005
1	0	13	18	1	857.21232	-63	562.321	.1437E-02	1.005
1	1	0	28	2	857.23914		525.997	.1475E-02	1.000
1	1	0	28	0	857.24076	-1	525.991	.2950E-02	1.000
1	1	7	12	3	857.25362		199.999	.3891E-02	.998
1	1	7	12	1	857.25577	-25	199.994	.1556E-01	.998
1	0	13	17	3	857.25875		539.017	.3296E-03	1.004
1	0	13	17	1	857.26073		539.011	.1318E-02	1.004
1	1	2	23	2	857.27024	34	365.783	.5758E-02	.916
-1	1	3	34	3	857.27289	740*	788.545	.9572E-03	1.163
1	1	2	23	0	857.27864		365.778	.1438E-02	.915
-1	1	3	34	1	857.28379		788.539	.4790E-03	1.164
1	0	13	16	3	857.30462		517.000	.2822E-03	1.003
1	0	13	16	1	857.30649	-51	516.994	.1129E-02	1.003
1	0	13	15	3	857.34782		496.275	.2140E-03	1.002
1	0	13	15	1	857.34958	-65	496.270	.8561E-03	1.002

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	0	13	14	3	857.38835		476.844	.1213E-03	1.001
1	0	13	14	1	857.39001	-23	476.839	.4853E-03	1.001
-1	1	2	32	2	857.47089	-10	691.859	.1588E-02	1.207
-1	1	2	32	0	857.48531		691.853	.3976E-03	1.209
1	1	3	21	3	857.49484	160	317.588	.7698E-02	.958
1	1	3	21	1	857.49955		317.582	.3849E-02	.958
1	1	8	10	2	857.52264	30	200.430	.1663E-01	.999
1	1	8	10	0	857.52460		200.425	.4158E-02	.999
-1	1	1	30	3	857.63751		604.343	.6714E-03	1.334
-1	1	1	30	1	857.64433	-112	604.337	.2690E-02	1.336
1	1	4	19	2	857.73665	14	278.590	.9645E-02	.977
1	1	4	19	0	857.74196		278.585	.2411E-02	.977
1	1	5	17	3	857.98631		248.802	.2884E-02	.988
1	1	5	17	1	857.98956	-55	248.797	.1153E-01	.988
1	1	6	15	2	858.24614		228.219	.6619E-02	.994
1	1	6	15	0	858.24952	143	228.213	.1324E-01	.994
1	1	1	26	3	858.31247		456.836	.8020E-03	.773
1	1	1	26	1	858.32035	-41	456.830	.3204E-02	.772
1	1	0	29	2	858.39894		563.518	.1271E-02	1.000
1	1	0	29	0	858.40057	-74	563.512	.2542E-02	1.000
1	1	2	24	2	858.50159	1	396.860	.5084E-02	.909
1	1	2	24	0	858.51056		396.855	.1268E-02	.907
1	1	7	13	3	858.51201		216.850	.3663E-02	.997
1	1	7	13	1	858.51429	-59	216.845	.1465E-01	.997
-1	1	2	33	2	858.66002	-3	734.522	.1346E-02	1.218
-1	1	2	33	0	858.67490		734.516	.3373E-03	1.221
1	1	3	22	3	858.72973	132	346.082	.6902E-02	.954
1	1	3	22	1	858.73472		346.077	.3448E-02	.953
1	1	8	11	2	858.78650	42	214.690	.1574E-01	.999
1	1	8	11	0	858.78862		214.685	.3936E-02	.999
-1	1	1	31	3	858.82578		644.436	.5794E-03	1.353
-1	1	1	31	1	858.83275	-69	644.431	.2321E-02	1.355
1	0	14	35	2	858.87190		1210.163	.2121E-03	1.025
1	0	14	35	0	858.87815		1210.157	.5303E-04	1.025
1	0	14	34	2	858.96526		1164.968	.2539E-03	1.024
1	0	14	34	0	858.97122		1164.962	.6347E-04	1.024
1	1	4	20	2	858.97632	16	304.500	.8766E-02	.975
1	1	4	20	0	858.98201		304.495	.2189E-02	.974

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	0	14	33	2	859.05608		1121.055	.3011E-03	1.022
1	0	14	33	0	859.06174		1121.050	.7527E-04	1.022
1	1	9	9	3	859.06677	-17	221.747	.1654E-01	1.000
1	1	9	9	1	859.06839		221.742	.8271E-02	1.000
1	0	14	32	2	859.14433		1078.426	.3539E-03	1.020
1	0	14	32	0	859.14971		1078.420	.8849E-04	1.020
1	0	14	31	2	859.23001		1037.079	.4128E-03	1.019
1	1	5	18	3	859.23106		272.126	.2649E-02	.986
1	1	5	18	1	859.23453	-36	272.120	.1060E-01	.986
1	0	14	31	0	859.23511		1037.073	.1032E-03	1.019
1	0	14	30	2	859.31311		997.017	.4766E-03	1.017
1	0	14	30	0	859.31794		997.011	.1191E-03	1.017
1	0	14	29	2	859.39362		958.240	.5454E-03	1.016
1	0	14	29	0	859.39819		958.234	.1364E-03	1.016
1	0	14	28	2	859.47153		920.749	.6180E-03	1.015
1	0	14	28	0	859.47585		920.743	.1545E-03	1.015
1	1	6	16	2	859.49627		248.954	.6146E-02	.993
1	1	6	16	0	859.49992	175	248.949	.1229E-01	.993
1	1	1	27	3	859.54253		491.781	.6853E-03	.757
1	0	14	27	2	859.54684		884.544	.6920E-03	1.013
1	0	14	27	0	859.55091		884.538	.1730E-03	1.013
1	1	1	27	1	859.55092	166	491.776	.2734E-02	.755
1	1	0	30	2	859.55385		602.325	.1087E-02	1.000
1	1	0	30	0	859.55549	-182*	602.320	.2174E-02	1.000
1	0	14	26	2	859.61953	21	849.626	.7667E-03	1.012
1	0	14	26	0	859.62336		849.621	.1917E-03	1.012
1	0	14	25	2	859.68960	-25	815.996	.8390E-03	1.011
1	0	14	25	0	859.69319		815.991	.2098E-03	1.011
1	1	2	25	2	859.73038	6	429.227	.4451E-02	.901
1	1	2	25	0	859.73995		429.221	.1110E-02	.899
1	0	14	24	2	859.75703	-10	783.655	.9057E-03	1.010
1	0	14	24	0	859.76040		783.649	.2264E-03	1.010
1	1	7	14	3	859.76751		234.996	.3433E-02	.997
1	1	7	14	1	859.76993	-51	234.991	.1373E-01	.997
1	0	14	23	2	859.82183	39	752.602	.9627E-03	1.009
1	0	14	23	0	859.82499		752.597	.2407E-03	1.009
-1	1	2	34	2	859.84493	-5	778.469	.1133E-02	1.230
-1	1	2	34	0	859.86025		778.463	.2838E-03	1.232

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	0	14	22	2	859.88399		722.839	.1005E-02	1.008
1	0	14	22	0	859.88693		722.834	.2514E-03	1.008
1	0	14	21	2	859.94349	8	694.367	.1028E-02	1.007
1	0	14	21	0	859.94623		694.361	.2571E-03	1.007
1	1	3	23	3	859.96185	180	375.868	.6137E-02	.949
1	1	3	23	1	859.96715		375.862	.3065E-02	.948
1	0	14	20	2	860.00033	-62	667.184	.1025E-02	1.006
1	0	14	20	0	860.00288		667.179	.2564E-03	1.006
-1	1	1	32	3	860.00926		685.815	.4958E-03	1.371
-1	1	1	32	1	860.01637	-45	685.810	.1988E-02	1.374
1	1	8	12	2	860.04747	36	230.245	.1484E-01	.999
1	1	8	12	0	860.04977		230.240	.3711E-02	.999
1	0	14	19	2	860.05451		641.293	.9894E-03	1.005
1	0	14	19	0	860.05687		641.288	.2473E-03	1.005
1	0	14	18	2	860.10601	75	616.694	.9122E-03	1.004
1	0	14	18	0	860.10820		616.688	.2281E-03	1.004
1	0	14	17	2	860.15484	65	593.386	.7851E-03	1.003
1	0	14	17	0	860.15686		593.381	.1963E-03	1.003
1	0	14	16	2	860.20098	-30	571.371	.5982E-03	1.002
1	0	14	16	0	860.20284		571.366	.1496E-03	1.002
1	1	4	21	2	860.21314	12	331.702	.7902E-02	.972
1	1	4	21	0	860.21923		331.697	.1974E-02	.971
1	0	14	15	2	860.24444		550.649	.3406E-03	1.001
1	0	14	15	0	860.24615		550.644	.8516E-04	1.001
1	1	9	10	3	860.33317	-16	234.710	.1563E-01	1.000
1	1	9	10	1	860.33489		234.705	.7814E-02	1.000
1	1	5	19	3	860.47293		296.742	.2417E-02	.984
1	1	5	19	1	860.47660	-58	296.737	.9667E-02	.984
1	1	0	31	2	860.70386		642.419	.9228E-03	1.000
1	1	0	31	0	860.70550	14	642.413	.1846E-02	1.000
1	1	6	17	2	860.74348		270.983	.5664E-02	.991
1	1	6	17	0	860.74742	162	270.978	.1133E-01	.991
1	1	1	28	3	860.77071		528.014	.5802E-03	.740
1	1	1	28	1	860.77962	-41	528.009	.2314E-02	.738
1	1	2	26	2	860.95662	28	462.883	.3864E-02	.892
1	1	2	26	0	860.96682		462.877	.9649E-03	.891
1	1	7	15	3	861.02010		254.436	.3195E-02	.996
1	1	7	15	1	861.02268	-35	254.431	.1278E-01	.996

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
-1	1	1	33	3	861.18786		728.479	.4215E-03	1.390
1	1	3	24	3	861.19120	211*	406.944	.5418E-02	.944
-1	1	1	33	1	861.19508	-178*	728.473	.1690E-02	1.393
1	1	3	24	1	861.19681		406.938	.2709E-02	.944
1	1	8	13	2	861.30556	42	247.096	.1391E-01	.998
1	1	8	13	0	861.30805		247.090	.3478E-02	.998
1	1	4	22	2	861.44710	0	360.196	.7065E-02	.968
1	1	4	22	0	861.45361		360.190	.1766E-02	.968
1	1	9	11	3	861.59670	-7	248.969	.1472E-01	1.000
1	1	9	11	1	861.59852		248.964	.7362E-02	1.000
1	1	5	20	3	861.71188		322.651	.2190E-02	.982
1	1	5	20	1	861.71579	-58	322.645	.8759E-02	.982
1	0	15	35	3	861.77362		1268.476	.1553E-03	1.023
1	0	15	35	1	861.77818		1268.470	.7764E-04	1.023
1	1	0	32	2	861.84893		683.798	.7779E-03	1.000
1	1	0	32	0	861.85059	86	683.792	.1556E-02	1.000
1	0	15	34	3	861.86774		1223.287	.1853E-03	1.021
1	0	15	34	1	861.87210		1223.281	.9264E-04	1.021
1	0	15	33	3	861.95927		1179.379	.2194E-03	1.020
1	0	15	33	1	861.96344		1179.373	.1097E-03	1.020
1	1	6	18	2	861.98778		294.306	.5191E-02	.990
1	1	6	18	0	861.99202	-113	294.300	.1038E-01	.990
1	1	1	29	3	861.99704		565.535	.4874E-03	.723
1	1	1	29	1	862.00650	-93	565.530	.1944E-02	.721
1	0	15	32	3	862.04822		1136.754	.2573E-03	1.018
1	0	15	32	1	862.05220		1136.748	.1286E-03	1.018
1	0	15	31	3	862.13457		1095.412	.2992E-03	1.017
1	0	15	31	1	862.13837		1095.407	.1496E-03	1.017
1	1	2	27	2	862.18035	72	497.827	.3333E-02	.884
1	1	2	27	0	862.19119		497.822	.8314E-03	.882
1	0	15	30	3	862.21832		1055.355	.3445E-03	1.016
1	0	15	30	1	862.22194		1055.349	.1723E-03	1.016
1	1	7	16	3	862.26977		275.171	.2956E-02	.995
1	1	7	16	1	862.27251	-72	275.165	.1182E-01	.995
1	0	15	29	3	862.29945		1016.583	.3923E-03	1.014
1	0	15	29	1	862.30290		1016.577	.1962E-03	1.014
-1	1	1	34	3	862.36147		772.426	.3556E-03	1.409
-1	1	1	34	1	862.36881	-126	772.420	.1426E-02	1.412

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	0	15	28	3	862.37796		979.096	.4425E-03	1.013
1	0	15	28	1	862.38124		979.090	.2212E-03	1.013
1	1	3	25	3	862.41780	89	439.310	.4748E-02	.939
1	1	3	25	1	862.42373		439.304	.2372E-02	.938
1	0	15	27	3	862.45383		942.895	.4933E-03	1.012
1	0	15	27	1	862.45696		942.889	.2466E-03	1.012
1	0	15	26	3	862.52707		907.982	.5431E-03	1.011
1	0	15	26	1	862.53004		907.976	.2715E-03	1.011
1	1	8	14	2	862.56073	43	265.240	.1299E-01	.998
1	1	8	14	0	862.56342		265.235	.3247E-02	.998
1	0	15	25	3	862.59766		874.356	.5897E-03	1.010
1	0	15	25	1	862.60048		874.350	.2949E-03	1.010
1	0	15	24	3	862.66560		842.018	.6306E-03	1.009
1	0	15	24	1	862.66827		842.012	.3153E-03	1.009
1	1	4	23	2	862.67819	18	389.980	.6279E-02	.965
1	1	4	23	0	862.68514		389.975	.1570E-02	.965
1	0	15	23	3	862.73088		810.969	.6618E-03	1.007
1	0	15	23	1	862.73340		810.963	.3309E-03	1.007
1	0	15	22	3	862.79349		781.209	.6808E-03	1.006
1	0	15	22	1	862.79587		781.204	.3404E-03	1.006
1	0	15	21	3	862.85342		752.740	.6827E-03	1.005
1	0	15	21	1	862.85567		752.734	.3417E-03	1.006
1	1	9	12	3	862.85733	-19	264.523	.1381E-01	.999
1	1	9	12	1	862.85926		264.518	.6903E-02	.999
1	0	15	20	3	862.91067		725.561	.6630E-03	1.005
1	0	15	20	1	862.91280		725.555	.3315E-03	1.005
1	1	5	21	3	862.94793		349.852	.1970E-02	.980
1	1	5	21	1	862.95207	-70	349.846	.7873E-02	.979
1	0	15	19	3	862.96524		699.673	.6146E-03	1.004
1	0	15	19	1	862.96724		699.667	.3073E-03	1.004
1	1	0	33	2	862.98906		726.462	.6510E-03	1.000
1	1	0	33	0	862.99073	25	726.456	.1302E-02	1.000
1	0	15	18	3	863.01711		675.076	.5317E-03	1.003
1	0	15	18	1	863.01900		675.071	.2658E-03	1.003
1	0	15	17	3	863.06629		651.771	.4071E-03	1.002
1	0	15	17	1	863.06807		651.766	.2036E-03	1.002
1	0	15	16	3	863.11276		629.759	.2329E-03	1.001
1	0	15	16	1	863.11443		629.754	.1165E-03	1.001

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	1	10	10	2	863.16196	8	273.013	.1432E-01	1.000
1	1	10	10	0	863.16363		273.008	.3579E-02	1.000
1	1	1	30	3	863.22160		604.343	.4063E-03	.706
1	1	6	19	2	863.22916		318.921	.4721E-02	.988
1	1	1	30	1	863.23163	88	604.337	.1620E-02	.704
1	1	6	19	0	863.23370	-119	318.916	.9443E-02	.988
1	1	2	28	2	863.40157	62	534.060	.2851E-02	.875
1	1	2	28	0	863.41308		534.055	.7120E-03	.874
1	1	7	17	3	863.51650		297.199	.2718E-02	.994
1	1	7	17	1	863.51942	-52	297.193	.1087E-01	.994
1	1	3	26	3	863.64163	215*	472.965	.4131E-02	.934
1	1	3	26	1	863.64791		472.959	.2063E-02	.933
1	1	8	15	2	863.81297	42	284.679	.1204E-01	.997
1	1	8	15	0	863.81589		284.674	.3011E-02	.997
1	1	4	24	2	863.90642	2	421.055	.5541E-02	.962
1	1	4	24	0	863.91383		421.050	.1384E-02	.961
1	1	9	13	3	864.11504	-19	281.372	.1290E-01	.999
1	1	9	13	1	864.11709		281.367	.6452E-02	.999
1	1	0	34	2	864.12423		770.409	.5409E-03	1.000
1	1	0	34	0	864.12591	202*	770.403	.1082E-02	1.000
1	1	5	22	3	864.18105		378.344	.1759E-02	.977
1	1	5	22	1	864.18544	-41	378.339	.7036E-02	.977
1	1	10	11	2	864.42520	33	287.271	.1343E-01	1.000
1	1	10	11	0	864.42701		287.265	.3357E-02	1.000
1	1	1	31	3	864.44442		644.436	.3355E-03	.688
1	1	1	31	1	864.45503	-77	644.431	.1338E-02	.686
1	1	6	20	2	864.46758		344.829	.4270E-02	.987
1	1	6	20	0	864.47246	-22	344.824	.8531E-02	.986
1	1	2	29	2	864.62032	65	571.580	.2421E-02	.866
1	1	2	29	0	864.63252		571.575	.6040E-03	.864
1	0	16	35	2	864.69437		1330.789	.1111E-03	1.021
1	0	16	35	0	864.69990		1330.783	.2778E-04	1.021
1	1	7	18	3	864.76029		320.520	.2483E-02	.993
1	1	7	18	1	864.76338	-51	320.514	.9933E-02	.993
1	0	16	34	2	864.78913		1285.605	.1323E-03	1.019
1	0	16	34	0	864.79439		1285.599	.3308E-04	1.019
1	1	3	27	3	864.86272	-26	507.909	.3565E-02	.928
1	1	3	27	1	864.86935		507.903	.1783E-02	.928
1	0	16	33	2	864.88128		1241.703	.1562E-03	1.018
1	0	16	33	0	864.88628		1241.697	.3906E-04	1.018
1	0	16	32	2	864.97082		1199.083	.1828E-03	1.017
1	0	16	32	0	864.97557		1199.078	.4571E-04	1.017
1	0	16	31	2	865.05775		1157.747	.2116E-03	1.015
1	0	16	31	0	865.06224		1157.741	.5291E-04	1.015
1	1	8	16	2	865.06227	77	305.413	.1111E-01	.996
1	1	8	16	0	865.06541		305.407	.2776E-02	.996
1	1	4	25	2	865.13179	12	453.420	.4851E-02	.958
1	1	4	25	0	865.13966		453.415	.1211E-02	.957
1	0	16	30	2	865.14204		1117.695	.2428E-03	1.014
1	0	16	30	0	865.14629		1117.689	.6069E-04	1.014
1	0	16	29	2	865.22370		1078.927	.2755E-03	1.013
1	0	16	29	0	865.22772		1078.921	.6886E-04	1.013
1	0	16	28	2	865.30272		1041.445	.3090E-03	1.012
1	0	16	28	0	865.30650		1041.439	.7724E-04	1.012
1	1	9	14	3	865.36981	-12	299.516	.1199E-01	.998
1	1	9	14	1	865.37199		299.510	.5994E-02	.998
1	0	16	27	2	865.37908		1005.249	.3422E-03	1.011
1	0	16	27	0	865.38264		1005.243	.8555E-04	1.011
1	1	5	23	3	865.41125		408.128	.1561E-02	.975
1	1	5	23	1	865.41589	-74	408.122	.6237E-02	.974
1	0	16	26	2	865.45278		970.340	.3735E-03	1.009
1	0	16	26	0	865.45613		970.334	.9337E-04	1.009
1	0	16	25	2	865.52382		936.718	.4017E-03	1.008
1	0	16	25	0	865.52695		936.712	.1004E-03	1.008
1	0	16	24	2	865.59218		904.384	.4245E-03	1.007
1	0	16	24	0	865.59511		904.379	.1061E-03	1.007
1	0	16	23	2	865.65786		873.339	.4393E-03	1.006
1	0	16	23	0	865.66060		873.334	.1098E-03	1.006
1	1	1	32	3	865.66555		685.815	.2750E-03	.670
1	1	1	32	1	865.67678	-180*	685.810	.1097E-02	.668
1	1	10	12	2	865.68552	36	302.824	.1256E-01	1.000
1	1	10	12	0	865.68750		302.818	.3139E-02	1.000
1	1	6	21	2	865.70306	-91	372.029	.3832E-02	.985
1	1	6	21	0	865.70827	1	372.023	.7664E-02	.985
1	0	16	22	2	865.72085		843.583	.4430E-03	1.005
1	0	16	22	0	865.72340		843.578	.1108E-03	1.005

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	0	16	21	2	865.78115		815.117	.4326E-03	1.005
1	0	16	21	0	865.78352		815.112	.1082E-03	1.005
1	1	2	30	2	865.83662	80	610.388	.2042E-02	.857
1	0	16	20	2	865.83875		787.942	.4032E-03	1.004
1	0	16	20	0	865.84095		787.936	.1008E-03	1.004
1	1	2	30	0	865.84953		610.382	.5092E-03	.855
1	0	16	19	2	865.89364		762.057	.3507E-03	1.003
1	0	16	19	0	865.89567		762.051	.8767E-04	1.003
1	0	16	18	2	865.94583		737.463	.2699E-03	1.002
1	0	16	18	0	865.94770		737.458	.6747E-04	1.002
1	0	16	17	2	865.99529		714.162	.1551E-03	1.001
1	0	16	17	0	865.99702		714.156	.3878E-04	1.001
1	1	7	19	3	866.00110		345.134	.2252E-02	.991
1	1	7	19	1	866.00438	-51	345.129	.9009E-02	.991
1	1	3	28	3	866.08108	632*	544.141	.3055E-02	.922
1	1	3	28	1	866.08806		544.135	.1528E-02	.922
1	1	8	17	2	866.30860	51	327.439	.1018E-01	.995
1	1	8	17	0	866.31200		327.434	.2545E-02	.995
1	1	4	26	2	866.35429	5	487.075	.4216E-02	.954
1	1	4	26	0	866.36265		487.069	.1053E-02	.953
1	1	9	15	3	866.62163	-15	318.954	.1109E-01	.998
1	1	9	15	1	866.62395		318.948	.5546E-02	.998
1	1	5	24	3	866.63852		439.202	.1374E-02	.972
1	1	5	24	1	866.64342	-81	439.196	.5498E-02	.972
1	1	1	33	3	866.88505		728.479	.2236E-03	.652
1	1	1	33	1	866.89690	-228*	728.473	.8916E-03	.650
1	1	6	22	2	866.93557		400.520	.3416E-02	.983
1	1	6	22	0	866.94114	155	400.514	.6832E-02	.983
1	1	10	13	2	866.94291	-21	319.671	.1168E-01	.999
1	1	10	13	0	866.94505		319.666	.2920E-02	.999
1	1	2	31	2	867.05049	36	650.481	.1707E-02	.847
1	1	2	31	0	867.06413		650.475	.4258E-03	.845
1	1	7	20	3	867.23895		371.040	.2031E-02	.990
1	1	7	20	1	867.24242	-88	371.035	.8126E-02	.990
1	1	11	11	3	867.26958		329.600	.2991E-02	1.000
1	1	11	11	1	867.27122	-26	329.594	.1196E-01	1.000
1	1	3	29	3	867.29670	292*	581.661	.2602E-02	.917
1	1	3	29	1	867.30405		581.655	.1300E-02	.916
1	1	8	18	2	867.55196	32	350.759	.9274E-02	.994
1	1	8	18	0	867.55561		350.754	.2319E-02	.994
1	1	4	27	2	867.57392	12	522.018	.3640E-02	.950
1	1	4	27	0	867.58278		522.012	.9090E-03	.949
1	0	17	35	3	867.62901		1397.106	.1944E-04	1.019
1	0	17	35	1	867.63313		1397.100	.7775E-04	1.019
1	0	17	34	3	867.72449		1351.928	.2310E-04	1.018
1	0	17	34	1	867.72844		1351.922	.9240E-04	1.018
1	0	17	33	3	867.81735		1308.032	.2717E-04	1.016
1	0	17	33	1	867.82112		1308.026	.1087E-03	1.016
1	1	5	25	3	867.86284		471.566	.1202E-02	.969
1	1	5	25	1	867.86802	234*	471.560	.4807E-02	.969
1	1	9	16	3	867.87049	-94	339.685	.1020E-01	.997
1	1	9	16	1	867.87294		339.680	.5098E-02	.997
1	0	17	32	3	867.90757		1265.418	.3168E-04	1.015
1	0	17	32	1	867.91117		1265.412	.1267E-03	1.015
1	0	17	31	3	867.99514		1224.087	.3656E-04	1.014
1	0	17	31	1	867.99858		1224.081	.1463E-03	1.014
1	0	17	30	3	868.08007		1184.040	.4174E-04	1.013
1	0	17	30	1	868.08334		1184.034	.1670E-03	1.013
1	1	1	34	3	868.10296		772.426	.1804E-03	.634
1	1	1	34	1	868.11545	-40	772.420	.7193E-03	.632
1	0	17	29	3	868.16233		1145.278	.4706E-04	1.011
1	1	6	23	2	868.16512		430.302	.3024E-02	.981
1	0	17	29	1	868.16544		1145.272	.1884E-03	1.012
1	1	6	23	0	868.17105	-123	430.297	.6049E-02	.981
1	1	10	14	2	868.19734	39	337.813	.1083E-01	.999
1	1	10	14	0	868.19967		337.808	.2707E-02	.999
1	0	17	28	3	868.24192		1107.800	.5244E-04	1.010
1	0	17	28	1	868.24489		1107.794	.2098E-03	1.010
1	1	2	32	2	868.26196	29	691.859	.1417E-02	.837
1	1	2	32	0	868.27635		691.853	.3534E-03	.835
1	0	17	27	3	868.31884		1071.609	.5763E-04	1.009
1	0	17	27	1	868.32166		1071.603	.2305E-03	1.009
1	0	17	26	3	868.39308		1036.704	.6236E-04	1.008
1	0	17	26	1	868.39575		1036.699	.2495E-03	1.008
1	0	17	25	3	868.46463		1003.087	.6629E-04	1.007
1	0	17	25	1	868.46716		1003.082	.2652E-03	1.007

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	1	7	21	3	868.47380		398.239	.1820E-02	.989
1	1	7	21	1	868.47748	-69	398.233	.7274E-02	.988
1	1	3	30	3	868.50960	93	620.467	.2196E-02	.910
1	1	3	30	1	868.51734		620.461	.1098E-02	.910
1	1	11	12	3	868.52954		345.151	.2786E-02	1.000
1	1	11	12	1	868.53128	-9	345.146	.1114E-01	1.000
1	0	17	24	3	868.53348		970.758	.6900E-04	1.006
1	0	17	24	1	868.53588		970.752	.2760E-03	1.006
1	0	17	23	3	868.59963		939.717	.6998E-04	1.005
1	0	17	23	1	868.60190		939.711	.2799E-03	1.005
1	0	17	22	3	868.66307		909.965	.6872E-04	1.005
1	0	17	22	1	868.66521		909.959	.2749E-03	1.005
1	0	17	21	3	868.72380		881.503	.6440E-04	1.004
1	0	17	21	1	868.72582		881.497	.2576E-03	1.004
1	0	17	20	3	868.78180		854.331	.5631E-04	1.003
1	0	17	20	1	868.78371		854.325	.2252E-03	1.003
1	1	4	28	2	868.79069	153	558.249	.3120E-02	.946
1	1	8	19	2	868.79234	-11	375.372	.8397E-02	.993
1	1	8	19	0	868.79626		375.366	.2099E-02	.993
1	1	4	28	0	868.80006		558.243	.7792E-03	.945
1	0	17	19	3	868.83708		828.449	.4357E-04	1.002
1	0	17	19	1	868.83887		828.444	.1743E-03	1.002
1	0	17	18	3	868.88962		803.859	.2517E-04	1.001
1	0	17	18	1	868.89131		803.854	.1007E-03	1.001
1	1	5	26	3	869.08423		505.219	.1044E-02	.966
1	1	5	26	1	869.08968	-63	505.213	.4175E-02	.966
1	1	9	17	3	869.11635	-12	361.710	.9329E-02	.997
1	1	9	17	1	869.11896		361.705	.4665E-02	.997
1	1	6	24	2	869.39167	-94	461.375	.2660E-02	.979
1	1	6	24	0	869.39799	36	461.369	.5320E-02	.979
1	1	10	15	2	869.44881	32	357.250	.9986E-02	.999
1	1	10	15	0	869.45132		357.244	.2497E-02	.999
1	1	2	33	2	869.47105	12	734.522	.1168E-02	.827
1	1	2	33	0	869.48621		734.516	.2913E-03	.825
1	1	7	22	3	869.70565		426.729	.1619E-02	.987
1	1	7	22	1	869.70954	-74	426.723	.6476E-02	.987
1	1	3	31	3	869.71979	331*	660.559	.1843E-02	.904
1	1	3	31	1	869.72792		660.553	.9204E-03	.903

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	1	11	13	3	869.78655		361.997	.2586E-02	1.000
1	1	11	13	1	869.78839	-26	361.992	.1034E-01	1.000
1	1	4	29	2	870.00459	47	595.767	.2656E-02	.942
1	1	4	29	0	870.01449		595.762	.6633E-03	.941
1	1	8	20	2	870.02970	34	401.276	.7556E-02	.992
1	1	8	20	0	870.03390		401.271	.1889E-02	.992
1	1	5	27	3	870.30266		540.161	.9002E-03	.963
1	1	5	27	1	870.30841	-84	540.155	.3601E-02	.963
1	1	9	18	3	870.35922	-16	385.029	.8477E-02	.996
1	1	9	18	1	870.36199		385.023	.4238E-02	.996
1	0	18	35	2	870.58212		1467.415	.2658E-04	1.017
1	0	18	35	0	870.58702		1467.409	.5316E-04	1.017
1	1	6	25	2	870.61524	-87	493.737	.2324E-02	.977
1	1	6	25	0	870.62195	48	493.732	.4642E-02	.976
1	1	2	34	2	870.67779	119	778.469	.9560E-03	.817
1	0	18	34	2	870.67823		1422.244	.3149E-04	1.016
1	0	18	34	0	870.68288		1422.238	.6298E-04	1.016
1	1	2	34	0	870.69375		778.463	.2384E-03	.815
1	1	10	16	2	870.69728	29	377.980	.9154E-02	.998
1	1	10	16	0	870.70000		377.974	.2288E-02	.998
1	0	18	33	2	870.77169		1378.354	.3694E-04	1.015
1	0	18	33	0	870.77611		1378.348	.7388E-04	1.015
1	0	18	32	2	870.86249		1335.746	.4290E-04	1.014
1	0	18	32	0	870.86668		1335.740	.8580E-04	1.014
1	1	3	32	3	870.92728	-3	701.937	.1535E-02	.898
1	1	7	23	3	870.93448		456.509	.1430E-02	.985
1	1	3	32	1	870.93581		701.931	.7668E-03	.897
1	1	7	23	1	870.93860	-92	456.504	.5722E-02	.985
1	0	18	31	2	870.95063		1294.421	.4923E-04	1.012
1	0	18	31	0	870.95459		1294.415	.9846E-04	1.012
1	0	18	30	2	871.03610		1254.380	.5589E-04	1.011
1	0	18	30	0	871.03984		1254.374	.1118E-03	1.011
1	1	11	14	3	871.04058		380.138	.2387E-02	.999
1	1	11	14	1	871.04253	-33	380.133	.9549E-02	.999
1	0	18	29	2	871.11888		1215.623	.6266E-04	1.010
1	0	18	29	0	871.12241		1215.617	.1253E-03	1.010
1	0	18	28	2	871.19898		1178.151	.6928E-04	1.009
1	0	18	28	0	871.20230		1178.145	.1386E-03	1.009

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	1	4	30	2	871.21563	62	634.573	.2243E-02	.937
1	1	4	30	0	871.22607		634.567	.5602E-03	.936
1	1	8	21	2	871.26405	23	428.473	.6755E-02	.991
1	1	8	21	0	871.26854		428.468	.1689E-02	.991
1	0	18	27	2	871.27638		1141.964	.7542E-04	1.008
1	0	18	27	0	871.27949		1141.959	.1508E-03	1.008
1	0	18	26	2	871.35107		1107.065	.8064E-04	1.007
1	0	18	26	0	871.35400		1107.059	.1613E-03	1.007
1	1	12	12	2	871.39155		391.497	.4834E-02	1.000
1	1	12	12	0	871.39323	73	391.491	.9668E-02	1.000
1	0	18	25	2	871.42306		1073.452	.8442E-04	1.006
1	0	18	25	0	871.42580		1073.447	.1688E-03	1.006
1	0	18	24	2	871.49234		1041.127	.8612E-04	1.005
1	0	18	24	0	871.49489		1041.122	.1722E-03	1.005
1	1	5	28	3	871.51814		576.390	.7711E-03	.960
1	1	5	28	1	871.52419	-80	576.385	.3084E-02	.960
1	0	18	23	2	871.55889		1010.091	.8497E-04	1.004
1	0	18	23	0	871.56126		1010.085	.1699E-03	1.004
1	1	9	19	3	871.59907	-10	409.640	.7656E-02	.995
1	1	9	19	1	871.60200		409.634	.3828E-02	.995
1	0	18	22	2	871.62271		980.343	.8015E-04	1.004
1	0	18	22	0	871.62492		980.338	.1603E-03	1.004
1	0	18	21	2	871.68380		951.885	.7046E-04	1.003
1	0	18	21	0	871.68584		951.880	.1409E-03	1.003
1	0	18	20	2	871.74215		924.717	.5480E-04	1.002
1	0	18	20	0	871.74404		924.711	.1096E-03	1.002
1	0	18	19	2	871.79776		898.839	.3182E-04	1.001
1	0	18	19	0	871.79950		898.834	.6364E-04	1.001
1	1	6	26	2	871.83581	-65	527.389	.2014E-02	.974
1	1	6	26	0	871.84292	31	527.383	.4028E-02	.974
1	1	10	17	2	871.94275	40	400.003	.8353E-02	.998
1	1	10	17	0	871.94568		399.998	.2088E-02	.998
1	1	3	33	3	872.13209	79	744.599	.1269E-02	.891
1	1	3	33	1	872.14103		744.593	.6337E-03	.890
1	1	7	24	3	872.16030		487.580	.1257E-02	.984
1	1	7	24	1	872.16464	-102	487.575	.5027E-02	.984
1	1	11	15	3	872.29161		399.573	.2196E-02	.999
1	1	11	15	1	872.29369	-37	399.567	.8782E-02	.999

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	1	4	31	2	872.42381	46	674.664	.1883E-02	.933
1	1	4	31	0	872.43480		674.658	.4703E-03	.932
1	1	8	22	2	872.49537	21	456.961	.6001E-02	.990
1	1	8	22	0	872.50017		456.956	.1500E-02	.990
1	1	12	13	2	872.64821		408.341	.4472E-02	1.000
1	1	12	13	0	872.65004	88	408.336	.8945E-02	1.000
1	1	5	29	3	872.73066		613.908	.6561E-03	.957
1	1	5	29	1	872.73702	-107	613.902	.2621E-02	.956
1	1	9	20	3	872.83588	-16	435.543	.6873E-02	.994
1	1	9	20	1	872.83899		435.537	.3436E-02	.994
1	1	6	27	2	873.05338	26	562.329	.1736E-02	.972
1	1	6	27	0	873.06090	38	562.323	.3468E-02	.971
1	1	10	18	2	873.18519	39	423.320	.7571E-02	.997
1	1	10	18	0	873.18835		423.314	.1893E-02	.997
1	1	3	34	3	873.33422	132	788.545	.1041E-02	.884
1	1	3	34	1	873.34359		788.539	.5201E-03	.883
1	1	7	25	3	873.38307		519.941	.1096E-02	.982
1	1	7	25	1	873.38766	-82	519.935	.4383E-02	.982
1	1	11	16	3	873.53964		420.301	.2009E-02	.999
1	1	11	16	1	873.54184	-25	420.296	.8037E-02	.999
1	0	19	35	3	873.54894		1541.721	.8884E-05	1.016
1	0	19	35	1	873.55268		1541.715	.3554E-04	1.016
1	1	4	32	2	873.62914	30	716.040	.1569E-02	.928
1	1	4	32	0	873.64070		716.034	.3918E-03	.927
1	0	19	34	3	873.64576		1496.556	.1049E-04	1.015
1	0	19	34	1	873.64933		1496.550	.4195E-04	1.015
1	1	8	23	2	873.72364	21	486.740	.5297E-02	.989
1	1	8	23	0	873.72875		486.734	.1323E-02	.988
1	0	19	33	3	873.73990		1452.673	.1224E-04	1.013
1	0	19	33	1	873.74332		1452.667	.4897E-04	1.013
1	0	19	32	3	873.83137		1410.071	.1415E-04	1.012
1	0	19	32	1	873.83463		1410.065	.5659E-04	1.012
1	1	12	14	2	873.90188		426.480	.4121E-02	1.000
1	1	12	14	0	873.90387	89	426.475	.8242E-02	1.000
1	0	19	31	3	873.92015		1368.752	.1616E-04	1.011
1	0	19	31	1	873.92325		1368.746	.6465E-04	1.011
1	1	5	30	3	873.94023		652.711	.5538E-03	.953
1	1	5	30	1	873.94690	-190*	652.706	.2215E-02	.953

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	0	19	30	3	874.00623		1328.717	.1823E-04	1.010
1	0	19	30	1	874.00918		1328.711	.7292E-04	1.010
1	1	9	21	3	874.06965	-15	462.737	.6132E-02	.993
1	1	9	21	1	874.07294		462.732	.3066E-02	.993
1	0	19	29	3	874.08961		1289.966	.2028E-04	1.009
1	0	19	29	1	874.09242		1289.960	.8111E-04	1.009
1	0	19	28	3	874.17027		1252.499	.2220E-04	1.008
1	0	19	28	1	874.17295		1252.494	.8882E-04	1.008
1	0	19	27	3	874.24822		1216.319	.2388E-04	1.007
1	0	19	27	1	874.25076		1216.313	.9553E-04	1.007
1	1	6	28	2	874.26793	-52	598.557	.1485E-02	.969
1	1	6	28	0	874.27588	55	598.551	.2969E-02	.969
1	0	19	26	3	874.32345		1181.424	.2515E-04	1.006
1	0	19	26	1	874.32585		1181.419	.1006E-03	1.006
1	0	19	25	3	874.39594		1147.817	.2580E-04	1.005
1	0	19	25	1	874.39822		1147.811	.1032E-03	1.005
1	1	10	19	2	874.42460	64	447.929	.6822E-02	.996
1	1	10	19	0	874.42798		447.923	.1706E-02	.996
1	0	19	24	3	874.46570		1115.497	.2561E-04	1.004
1	0	19	24	1	874.46785		1115.491	.1024E-03	1.004
1	0	19	23	3	874.53271		1084.465	.2429E-04	1.004
1	0	19	23	1	874.53475		1084.459	.9716E-04	1.004
1	0	19	22	3	874.59698		1054.722	.2147E-04	1.003
1	0	19	22	1	874.59890		1054.716	.8589E-04	1.003
1	1	7	26	3	874.60281		553.591	.9491E-03	.980
1	1	7	26	1	874.60763	-56	553.585	.3797E-02	.980
1	0	19	21	3	874.65849		1026.268	.1679E-04	1.002
1	0	19	21	1	874.66030		1026.262	.6716E-04	1.002
1	0	19	20	3	874.71724		999.104	.9799E-05	1.001
1	0	19	20	1	874.71895		999.098	.3920E-04	1.001
1	1	11	17	3	874.78463		442.323	.1827E-02	.998
1	1	11	17	1	874.78697	-50	442.317	.7308E-02	.998
1	1	4	33	2	874.83161	177	758.701	.1298E-02	.923
1	1	4	33	0	874.84375		758.695	.3241E-03	.922
1	1	8	24	2	874.94886	17	517.809	.4640E-02	.987
1	1	8	24	0	874.95430		517.803	.1160E-02	.987
1	1	5	31	3	875.14683		692.801	.4648E-03	.950
1	1	12	15	2	875.15254		445.913	.3777E-02	.999

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	1	5	31	1	875.15383	18	692.795	.1857E-02	.949
1	1	12	15	0	875.15470	76	445.908	.7553E-02	.999
1	1	9	22	3	875.30035	25	491.224	.5436E-02	.992
1	1	9	22	1	875.30383		491.218	.2718E-02	.992
1	1	6	29	2	875.47947	-75	636.073	.1262E-02	.967
1	1	6	29	0	875.48786	39	636.067	.2522E-02	.966
1	1	13	13	3	875.52545		458.707	.1891E-02	1.000
1	1	13	13	1	875.52710	-28	458.702	.7564E-02	1.000
1	1	10	20	2	875.66095	26	473.830	.6117E-02	.996
1	1	10	20	0	875.66458		473.824	.1529E-02	.996
1	1	7	27	3	875.81948		588.529	.8167E-03	.978
1	1	7	27	1	875.82456	-88	588.523	.3267E-02	.978
1	1	11	18	3	876.02658		465.637	.1654E-02	.998
1	1	11	18	1	876.02906	-20	465.632	.6615E-02	.998
1	1	4	34	2	876.03124		802.646	.1066E-02	.918
1	1	4	34	0	876.04397		802.640	.2663E-03	.917
1	1	8	25	2	876.17100	17	550.168	.4043E-02	.986
1	1	8	25	0	876.17678		550.162	.1011E-02	.986
1	1	5	32	3	876.35048		734.176	.3871E-03	.946
1	1	5	32	1	876.35780	-92	734.170	.1548E-02	.946
1	1	12	16	2	876.40017		466.639	.3447E-02	.999
1	1	12	16	0	876.40251	99	466.634	.6895E-02	.999
1	1	9	23	3	876.52798	-9	521.000	.4789E-02	.991
1	1	9	23	1	876.53166		520.995	.2394E-02	.991
1	1	6	30	2	876.68797	12	674.875	.1065E-02	.964
1	1	6	30	0	876.69682	49	674.869	.2128E-02	.963
1	1	13	14	3	876.77870		476.844	.1738E-02	1.000
1	1	13	14	1	876.78045	-24	476.839	.6951E-02	1.000
1	1	10	21	2	876.89422	42	501.023	.5446E-02	.995
1	1	10	21	0	876.89811		501.017	.1362E-02	.995
1	1	7	28	3	877.03310		624.755	.6980E-03	.976
1	1	7	28	1	877.03844	-60	624.750	.2792E-02	.976
1	1	11	19	3	877.26546		490.244	.1487E-02	.997
1	1	11	19	1	877.26809	-111	490.239	.5948E-02	.997
1	1	8	26	2	877.39007	32	583.816	.3496E-02	.984
1	1	8	26	0	877.39619		583.810	.8739E-03	.984
1	1	5	33	3	877.55116		776.835	.3201E-03	.942
1	1	5	33	1	877.55882	-98	776.830	.1281E-02	.942

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	1	12	17	2	877.64475		488.659	.3131E-02	.999
1	1	12	17	0	877.64727	118	488.653	.6262E-02	.999
1	1	9	24	3	877.75252	-3	552.067	.4192E-02	.990
1	1	9	24	1	877.75640		552.062	.2096E-02	.990
1	1	6	31	2	877.89345		714.963	.8927E-03	.961
1	1	6	31	0	877.90276	59	714.957	.1786E-02	.961
1	1	13	15	3	878.02892		496.275	.1590E-02	1.000
1	1	13	15	1	878.03078	-32	496.270	.6361E-02	1.000
1	1	10	22	2	878.12442	40	529.506	.4819E-02	.994
1	1	10	22	0	878.12857		529.501	.1205E-02	.994
1	1	7	29	3	878.24364		662.269	.5927E-03	.974
1	1	7	29	1	878.24925	-118	662.263	.2371E-02	.974
1	1	11	20	3	878.50127		516.143	.1331E-02	.997
1	1	11	20	1	878.50405	-61	516.137	.5323E-02	.997
1	1	8	27	2	878.60604	21	618.752	.3003E-02	.982
1	1	8	27	0	878.61253		618.746	.7508E-03	.982
1	1	5	34	3	878.74888		820.778	.2630E-03	.938
1	1	5	34	1	878.75689		820.773	.1052E-02	.938
1	1	12	18	2	878.88626		511.971	.2825E-02	.998
1	1	12	18	0	878.88899	172	511.966	.5650E-02	.998
1	1	9	25	3	878.97396	127	584.424	.3646E-02	.989
1	1	9	25	1	878.97805		584.418	.1823E-02	.989
1	1	6	32	2	879.09590		756.336	.7432E-03	.958
1	1	6	32	0	879.10568	43	756.330	.1485E-02	.957
1	1	13	16	3	879.27609		517.000	.1447E-02	.999
1	1	13	16	1	879.27806	-50	516.994	.5787E-02	.999
1	1	10	23	2	879.35151	31	559.281	.4238E-02	.993
1	1	10	23	0	879.35594		559.275	.1060E-02	.993
1	1	7	30	3	879.45111		701.069	.4994E-03	.971
1	1	7	30	1	879.45698	-95	701.063	.1998E-02	.971
1	1	14	14	2	879.67320	24	531.221	.5734E-02	1.000
1	1	14	14	0	879.67490		531.215	.1434E-02	1.000
1	1	11	21	3	879.73398		543.333	.1183E-02	.996
1	1	11	21	1	879.73692	-14	543.328	.4730E-02	.996
1	1	8	28	2	879.81892	-1	654.976	.2566E-02	.981
1	1	8	28	0	879.82577		654.970	.6407E-03	.980
1	1	12	19	2	880.12469		536.576	.2538E-02	.998
1	1	12	19	0	880.12762	56	536.570	.5075E-02	.998

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	1	9	26	3	880.19229	123	618.069	.3148E-02	.987
1	1	9	26	1	880.19658		618.064	.1574E-02	.987
1	1	6	33	2	880.29530		798.993	.6146E-03	.955
1	1	6	33	0	880.30557	60	798.987	.1228E-02	.954
1	1	13	17	3	880.52018		539.017	.1311E-02	.999
1	1	13	17	1	880.52228	-51	539.011	.5244E-02	.999
1	1	10	24	2	880.57548	3	590.345	.3704E-02	.992
1	1	10	24	0	880.58020		590.340	.9259E-03	.992
1	1	7	31	3	880.65548		741.155	.4184E-03	.969
1	1	7	31	1	880.66164	-82	741.149	.1674E-02	.969
1	1	14	15	2	880.92303	29	550.649	.5235E-02	1.000
1	1	14	15	0	880.92487		550.644	.1309E-02	1.000
1	1	11	22	3	880.96357		571.815	.1045E-02	.995
1	1	11	22	1	880.96668	-65	571.809	.4178E-02	.995
1	1	8	29	2	881.02868	30	692.487	.2175E-02	.979
1	1	8	29	0	881.03591		692.481	.5438E-03	.979
1	1	12	20	2	881.36002		562.472	.2264E-02	.997
1	1	12	20	0	881.36317	150	562.467	.4529E-02	.997
1	1	9	27	3	881.40748	144	653.003	.2703E-02	.986
1	1	9	27	1	881.41200		652.998	.1351E-02	.986
1	1	6	34	2	881.49167		842.934	.5049E-03	.952
1	1	6	34	0	881.50243		842.928	.1009E-02	.951
1	1	13	18	3	881.76119		562.327	.1182E-02	.999
1	1	13	18	1	881.76341	-37	562.321	.4727E-02	.999
1	1	10	25	2	881.79633	14	622.699	.3216E-02	.991
1	1	10	25	0	881.80134		622.694	.8041E-03	.991
1	1	7	32	3	881.85677		782.526	.3483E-03	.967
1	1	7	32	1	881.86321	-100	782.520	.1392E-02	.966
1	1	14	16	2	882.16978	68	571.371	.4757E-02	1.000
1	1	14	16	0	882.17178		571.366	.1189E-02	1.000
1	1	11	23	3	882.19004		601.587	.9170E-03	.994
1	1	11	23	1	882.19332	-61	601.581	.3668E-02	.994
1	1	8	30	2	882.23531	20	731.285	.1832E-02	.977
1	1	8	30	0	882.24293		731.279	.4581E-03	.977
1	1	12	21	2	882.59224		589.660	.2011E-02	.997
1	1	12	21	0	882.59561	169	589.655	.4021E-02	.997
1	1	9	28	3	882.61954	136	689.225	.2303E-02	.984
1	1	9	28	1	882.62429		689.219	.1152E-02	.984

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	1	13	19	3	882.99910		586.929	.1060E-02	.999
1	1	13	19	1	883.00145	-29	586.924	.4238E-02	.999
1	1	10	26	2	883.01403	6	656.342	.2775E-02	.990
1	1	10	26	0	883.01935		656.337	.6938E-03	.990
1	1	7	33	3	883.05495		825.181	.2877E-03	.964
1	1	7	33	1	883.06168	-145	825.175	.1151E-02	.964
1	1	11	24	3	883.41336		632.649	.8009E-03	.994
1	1	14	17	2	883.41344	123	593.386	.4302E-02	1.000
1	1	14	17	0	883.41561		593.381	.1075E-02	.999
1	1	11	24	1	883.41683	-215*	632.643	.3204E-02	.994
1	1	8	31	2	883.43882	0	771.368	.1533E-02	.975
1	1	8	31	0	883.44684		771.363	.3833E-03	.975
1	1	12	22	2	883.82132		618.139	.1773E-02	.996
1	1	12	22	0	883.82492	106	618.134	.3546E-02	.996
1	1	9	29	3	883.82844	-485*	726.733	.1952E-02	.983
1	1	15	15	3	883.83239	-76	609.039	.4216E-02	1.000
1	1	9	29	1	883.83343		726.728	.9762E-03	.983
1	1	15	15	1	883.83405		609.034	.2108E-02	1.000
1	1	10	27	2	884.22858	-62	691.274	.2380E-02	.989
1	1	13	20	3	884.23388		612.823	.9437E-03	.998
1	1	10	27	0	884.23421		691.268	.5943E-03	.988
1	1	13	20	1	884.23637	-52	612.817	.3775E-02	.998
1	1	7	34	3	884.25002		869.120	.2360E-03	.961
1	1	7	34	1	884.25706		869.114	.9441E-03	.961
1	1	11	25	3	884.63353		665.000	.6944E-03	.993
1	1	11	25	1	884.63718	12	664.994	.2778E-02	.993
1	1	8	32	2	884.63918	-188*	812.737	.1275E-02	.973
1	1	8	32	0	884.64761		812.731	.3187E-03	.973
1	1	14	18	2	884.65400	25	616.694	.3867E-02	.999
1	1	14	18	0	884.65635		616.688	.9668E-03	.999
1	1	9	30	3	885.03419	169	765.529	.1642E-02	.981
1	1	9	30	1	885.03941		765.523	.8212E-03	.981
1	1	12	23	2	885.04725		647.908	.1555E-02	.996
1	1	12	23	0	885.05109	80	647.903	.3111E-02	.996
1	1	15	16	3	885.07866	-39	629.759	.3823E-02	1.000
1	1	15	16	1	885.08042		629.754	.1912E-02	1.000
1	1	10	28	2	885.43996	22	727.492	.2025E-02	.987
1	1	10	28	0	885.44591		727.487	.5063E-03	.987
1	1	13	21	3	885.46551		640.008	.8365E-03	.998
1	1	13	21	1	885.46815	-57	640.003	.3346E-02	.998
1	1	8	33	2	885.83640	-1	855.389	.1053E-02	.971
1	1	8	33	0	885.84524		855.384	.2629E-03	.970
1	1	11	26	3	885.85053		698.640	.5984E-03	.992
1	1	11	26	1	885.85437	-87	698.635	.2393E-02	.992
1	1	14	19	2	885.89143	38	641.293	.3461E-02	.999
1	1	14	19	0	885.89396		641.288	.8652E-03	.999
1	1	9	31	3	886.23676	191*	805.609	.1374E-02	.980
1	1	9	31	1	886.24223		805.603	.6864E-03	.979
1	1	12	24	2	886.27001		678.967	.1355E-02	.995
1	1	12	24	0	886.27411	-86	678.962	.2710E-02	.995
1	1	15	17	3	886.32183	-24	651.771	.3451E-02	1.000
1	1	15	17	1	886.32370		651.766	.1726E-02	1.000
1	1	10	29	2	886.64815	19	764.998	.1714E-02	.986
1	1	10	29	0	886.65443		764.993	.4286E-03	.986
1	1	13	22	3	886.69400		668.484	.7365E-03	.997
1	1	13	22	1	886.69678	-62	668.479	.2946E-02	.997
1	1	8	34	2	887.03046	57	899.325	.8628E-03	.968
1	1	8	34	0	887.03973		899.320	.2157E-03	.968
1	1	11	27	3	887.06434		733.568	.5124E-03	.991
1	1	11	27	1	887.06838	-70	733.563	.2049E-02	.991
1	1	14	20	2	887.12572	43	667.184	.3080E-02	.999
1	1	14	20	0	887.12845		667.179	.7701E-03	.999
1	1	9	32	3	887.43615	290*	846.975	.1141E-02	.978
1	1	9	32	1	887.44187		846.969	.5705E-03	.978
1	1	12	25	2	887.48959		711.316	.1173E-02	.994
1	1	12	25	0	887.49395	-36	711.310	.2347E-02	.994
1	1	15	18	3	887.56187	-31	675.076	.3100E-02	1.000
1	1	15	18	1	887.56385		675.071	.1550E-02	1.000
1	1	10	30	2	887.85315	45	803.790	.1442E-02	.985
1	1	10	30	0	887.85978		803.785	.3601E-03	.984
1	1	13	23	3	887.91930		698.250	.6452E-03	.997
1	1	13	23	1	887.92225	-63	698.245	.2581E-02	.997
1	1	16	16	2	888.00491	12	692.152	.3007E-02	1.000
1	1	16	16	0	888.00662		692.146	.7518E-03	1.000
1	1	11	28	3	888.27495		769.784	.4359E-03	.990
1	1	11	28	1	888.27920	-119	769.779	.1744E-02	.990

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	1	14	21	2	888.35685	25	694.367	.2723E-02	.998
1	1	14	21	0	888.35978		694.361	.6809E-03	.998
1	1	9	33	3	888.63234	242*	889.625	.9413E-03	.976
1	1	9	33	1	888.63833		889.619	.4707E-03	.976
1	1	12	26	2	888.70598		744.953	.1010E-02	.993
1	1	12	26	0	888.71061	-119	744.947	.2019E-02	.993
1	1	15	19	3	888.79876	-34	699.673	.2767E-02	.999
1	1	15	19	1	888.80086		699.667	.1383E-02	.999
1	1	10	31	2	889.05495	33	843.868	.1204E-02	.983
1	1	10	31	0	889.06192		843.862	.3009E-03	.983
1	1	13	24	3	889.14142		729.306	.5613E-03	.996
1	1	13	24	1	889.14453	10	729.301	.2245E-02	.996
1	1	16	17	2	889.24762	36	714.162	.2710E-02	1.000
1	1	16	17	0	889.24948		714.156	.6774E-03	1.000
1	1	11	29	3	889.48235		807.287	.3682E-03	.988
1	1	11	29	1	889.48680	-84	807.281	.1473E-02	.988
1	1	14	22	2	889.58481	15	722.839	.2396E-02	.998
1	1	14	22	0	889.58794		722.834	.5991E-03	.998
1	1	9	34	3	889.82534	204*	933.558	.7715E-03	.974
1	1	9	34	1	889.83159		933.552	.3858E-03	.974
1	1	12	27	2	889.91916		779.878	.8634E-03	.992
1	1	12	27	0	889.92407	26	779.872	.1727E-02	.992
1	1	15	20	3	890.03249	-30	725.561	.2458E-02	.999
1	1	15	20	1	890.03472		725.555	.1229E-02	.999
1	1	10	32	2	890.25353	68	885.230	.9994E-03	.982
1	1	10	32	0	890.26086		885.224	.2496E-03	.981
1	1	13	25	3	890.36034		761.651	.4853E-03	.995
1	1	13	25	1	890.36361	-84	761.646	.1941E-02	.995
1	1	16	18	2	890.48719	23	737.463	.2430E-02	1.000
1	1	16	18	0	890.48920		737.458	.6074E-03	1.000
1	1	11	30	3	890.68652		846.076	.3093E-03	.987
1	1	11	30	1	890.69119	-126	846.070	.1237E-02	.987
1	1	14	23	2	890.80957	44	752.602	.2094E-02	.997
1	1	14	23	0	890.81291		752.597	.5236E-03	.997
1	1	12	28	2	891.12911		816.090	.7337E-03	.991
1	1	12	28	0	891.13430	-80	816.084	.1467E-02	.991
1	1	15	21	3	891.26303	-21	752.740	.2172E-02	.999
1	1	15	21	1	891.26540		752.734	.1086E-02	.999
1	1	10	33	2	891.44888	102	927.877	.8236E-03	.980
1	1	10	33	0	891.45657		927.871	.2059E-03	.980
1	1	13	26	3	891.57603		795.285	.4175E-03	.995
1	1	13	26	1	891.57947	-84	795.279	.1670E-02	.995
1	1	16	19	2	891.72359	23	762.057	.2167E-02	1.000
1	1	16	19	0	891.72577		762.051	.5418E-03	1.000
1	1	11	31	3	891.88745		886.150	.2582E-03	.986
1	1	11	31	1	891.89234	-61	886.144	.1033E-02	.986
1	1	14	24	2	892.03111	44	783.655	.1821E-02	.997
1	1	14	24	0	892.03469		783.649	.4553E-03	.997
1	1	17	17	3	892.18833		780.560	.5207E-03	1.000
1	1	17	17	1	892.19000	-46	780.555	.2083E-02	1.000
1	1	12	29	2	892.33582		853.589	.6196E-03	.990
1	1	12	29	0	892.34131	-97	853.584	.1239E-02	.990
1	1	15	22	3	892.49038	-43	781.209	.1907E-02	.998
1	1	15	22	1	892.49288		781.204	.9535E-03	.998
1	1	10	34	2	892.64099	85	971.806	.6744E-03	.978
1	1	10	34	0	892.64905		971.801	.1686E-03	.978
1	1	13	27	3	892.78848		830.206	.3566E-03	.994
1	1	13	27	1	892.79211	-69	830.201	.1426E-02	.994
1	1	16	20	2	892.95681	-10	787.942	.1921E-02	.999
1	1	16	20	0	892.95916		787.936	.4802E-03	.999
1	1	11	32	3	893.08513		927.509	.2142E-03	.985
1	1	11	32	1	893.09025	-78	927.503	.8566E-03	.985
1	1	14	25	2	893.24944	20	815.996	.1573E-02	.996
1	1	14	25	0	893.25324		815.991	.3932E-03	.996
1	1	17	18	3	893.42736		803.859	.4661E-03	1.000
1	1	17	18	1	893.42914	-12	803.854	.1864E-02	1.000
1	1	12	30	2	893.53928		892.374	.5200E-03	.989
1	1	12	30	0	893.54507	88	892.369	.1040E-02	.989
1	1	15	23	3	893.71451	5	810.969	.1666E-02	.998
1	1	15	23	1	893.71715		810.963	.8330E-03	.998
1	1	13	28	3	893.99768		866.415	.3027E-03	.993
1	1	13	28	1	894.00149	-101	866.409	.1211E-02	.993
1	1	16	21	2	894.18683	32	815.117	.1695E-02	.999
1	1	16	21	0	894.18936		815.112	.4238E-03	.999
1	1	11	33	3	894.27955		970.152	.1763E-03	.983
1	1	11	33	1	894.28490		970.146	.7052E-03	.983

ΔK	ΔJ	K	J	σ	ν_i	o–c	E_i''	S_i	W_i
1	1	14	26	2	894.46451	139	849.626	.1351E-02	.996
1	1	14	26	0	894.46856		849.621	.3379E-03	.996
1	1	17	19	3	894.66321		828.449	.4151E-03	1.000
1	1	17	19	1	894.66509	-37	828.444	.1661E-02	1.000
1	1	12	31	2	894.73947		932.445	.4336E-03	.988
1	1	12	31	0	894.74557	89	932.439	.8671E-03	.988
1	1	15	24	3	894.93541	-16	842.018	.1447E-02	.998
1	1	15	24	1	894.93820		842.012	.7235E-03	.998
1	1	13	29	3	895.20362		903.911	.2553E-03	.992
1	1	13	29	1	895.20762	-117	903.905	.1021E-02	.992
1	1	16	22	2	895.41363	68	843.583	.1487E-02	.999
1	1	16	22	0	895.41635		843.578	.3719E-03	.999
1	1	11	34	3	895.47069		1014.078	.1444E-03	.982
1	1	11	34	1	895.47628		1014.072	.5775E-03	.982
1	1	14	27	2	895.67633	51	884.544	.1153E-02	.995
1	1	14	27	0	895.68062		884.538	.2882E-03	.995
1	1	17	20	3	895.89585		854.331	.3678E-03	1.000
1	1	17	20	1	895.89785	-51	854.325	.1471E-02	1.000
1	1	12	32	2	895.93639		973.800	.3592E-03	.987
1	1	12	32	0	895.94280	257*	973.794	.7185E-03	.987
1	1	15	25	3	896.15305	7	874.356	.1248E-02	.997
1	1	15	25	1	896.15600		874.350	.6240E-03	.997
1	1	18	18	2	896.38456		874.252	.7004E-03	1.000
1	1	18	18	0	896.38628	73	874.247	.1401E-02	1.000
1	1	13	30	3	896.40627		942.692	.2140E-03	.991
1	1	13	30	1	896.41047	-98	942.686	.8562E-03	.991
1	1	16	23	2	896.63720	-17	873.339	.1297E-02	.998
1	1	16	23	0	896.64011		873.334	.3241E-03	.998
1	1	14	28	2	896.88488	30	920.749	.9775E-03	.994
1	1	14	28	0	896.88942		920.743	.2444E-03	.994
1	1	17	21	3	897.12527		881.503	.3238E-03	.999
1	1	17	21	1	897.12739	-3	881.497	.1295E-02	.999
1	1	12	33	2	897.13001		1016.439	.2958E-03	.986
1	1	12	33	0	897.13674		1016.433	.5915E-03	.986
1	1	15	26	3	897.36743	-25	907.982	.1071E-02	.997
1	1	15	26	1	897.37053		907.976	.5350E-03	.996
1	1	13	31	3	897.60563		982.758	.1783E-03	.990
1	1	13	31	1	897.61003	-101	982.752	.7132E-03	.990
1	1	18	19	2	897.61990		898.839	.6229E-03	1.000
1	1	18	19	0	897.62177	70	898.834	.1246E-02	1.000
1	1	16	24	2	897.85751	31	904.384	.1125E-02	.998
1	1	16	24	0	897.86062		904.379	.2812E-03	.998
1	1	14	29	2	898.09013	-44	958.240	.8237E-03	.993
1	1	14	29	0	898.09494		958.234	.2059E-03	.993
1	1	12	34	2	898.32033		1060.361	.2420E-03	.985
1	1	12	34	0	898.32739		1060.355	.4834E-03	.984
1	1	17	22	3	898.35145		909.965	.2838E-03	.999
1	1	17	22	1	898.35370	-95	909.959	.1135E-02	.999
1	1	15	27	3	898.57853	30	942.895	.9127E-03	.996
1	1	15	27	1	898.58179		942.889	.4563E-03	.996
1	1	13	32	3	898.80169		1024.109	.1476E-03	.989
1	1	13	32	1	898.80628		1024.103	.5903E-03	.989
1	1	18	20	2	898.85201		924.717	.5512E-03	1.000
1	1	18	20	0	898.85404	58	924.711	.1102E-02	1.000
1	1	16	25	2	899.07455	38	936.718	.9699E-03	.998
1	1	16	25	0	899.07787		936.712	.2425E-03	.998
1	1	14	30	2	899.29208	184*	997.017	.6905E-03	.993
1	1	14	30	0	899.29716		997.011	.1726E-03	.993
1	1	17	23	3	899.57438		939.717	.2473E-03	.999
1	1	17	23	1	899.57675	-9	939.711	.9892E-03	.999
1	1	15	28	3	899.78633	26	979.096	.7730E-03	.995
1	1	15	28	1	899.78975		979.090	.3865E-03	.995
1	1	13	33	3	899.99442		1066.744	.1214E-03	.988
1	1	13	33	1	899.99922		1066.738	.4856E-03	.988
1	1	18	21	2	900.08088		951.885	.4851E-03	1.000
1	1	18	21	0	900.08307	50	951.880	.9702E-03	1.000
1	1	16	26	2	900.28830	103	970.340	.8306E-03	.997
1	1	16	26	0	900.29184		970.334	.2076E-03	.997
1	1	14	31	2	900.49071	-74	1037.079	.5746E-03	.992
1	1	14	31	0	900.49606		1037.073	.1437E-03	.992
1	1	19	19	3	900.59113		973.230	.2288E-03	1.000
1	1	19	19	1	900.59282		973.224	.9154E-03	1.000
1	1	17	24	3	900.79403		970.758	.2143E-03	.999
1	1	17	24	1	900.79653	-63	970.752	.8571E-03	.999
1	1	15	29	3	900.99081	28	1016.583	.6514E-03	.995
1	1	15	29	1	900.99441		1016.577	.3257E-03	.995

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	1	13	34	3	901.18381		1110.661	.9922E-04	.987
1	1	13	34	1	901.18883		1110.655	.3969E-03	.987
1	1	18	22	2	901.30650		980.343	.4242E-03	.999
1	1	18	22	0	901.30886	105	980.338	.8484E-03	.999
1	1	16	27	2	901.49875	-82	1005.249	.7078E-03	.997
1	1	16	27	0	901.50251		1005.243	.1769E-03	.997
1	1	14	32	2	901.68601		1078.426	.4752E-03	.991
1	1	14	32	0	901.69164		1078.420	.1188E-03	.991
1	1	19	20	3	901.82265		999.104	.2022E-03	1.000
1	1	19	20	1	901.82445	-68	999.098	.8089E-03	1.000
1	1	17	25	3	902.01038		1003.087	.1844E-03	.998
1	1	17	25	1	902.01303	-118	1003.082	.7375E-03	.998
1	1	15	30	3	902.19196	25	1055.355	.5449E-03	.994
1	1	15	30	1	902.19574		1055.349	.2725E-03	.994
1	1	18	23	2	902.52884		1010.091	.3692E-03	.999
1	1	18	23	0	902.53137	125	1010.085	.7384E-03	.999
1	1	16	28	2	902.70588		1041.445	.5988E-03	.996
1	1	16	28	0	902.70987		1041.439	.1497E-03	.996
1	1	14	33	2	902.87796		1121.055	.3905E-03	.990
1	1	14	33	0	902.88388		1121.050	.9763E-04	.990
1	1	19	21	3	903.05091		1026.268	.1778E-03	1.000
1	1	19	21	1	903.05281	-4	1026.262	.7110E-03	1.000
1	1	17	26	3	903.22343		1036.704	.1579E-03	.998
1	1	17	26	1	903.22622	-109	1036.699	.6316E-03	.998
1	1	15	31	3	903.38977	84	1095.412	.4531E-03	.993
1	1	15	31	1	903.39373		1095.407	.2265E-03	.993
1	1	18	24	2	903.74788		1041.127	.3195E-03	.999
1	1	18	24	0	903.75060	-23	1041.122	.6391E-03	.999
1	1	16	29	2	903.90968		1078.927	.5041E-03	.996
1	1	16	29	0	903.91390		1078.921	.1260E-03	.996
1	1	14	34	2	904.06654		1164.968	.3189E-03	.989
1	1	14	34	0	904.07276		1164.962	.7973E-04	.989
1	1	19	22	3	904.27589		1054.722	.1554E-03	1.000
1	1	19	22	1	904.27791	-180	1054.716	.6216E-03	1.000
1	1	17	27	3	904.43315		1071.609	.1343E-03	.997
1	1	17	27	1	904.43608		1071.603	.5371E-03	.997
1	1	15	32	3	904.58422	146	1136.754	.3744E-03	.992
1	1	15	32	1	904.58836		1136.748	.1872E-03	.992

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	1	18	25	2	904.96362		1073.452	.2750E-03	.999
1	1	18	25	0	904.96652	86	1073.447	.5499E-03	.999
1	1	16	30	2	905.11012		1117.695	.4213E-03	.995
1	1	16	30	0	905.11458		1117.689	.1053E-03	.995
1	1	19	23	3	905.49758		1084.465	.1350E-03	.999
1	1	19	23	1	905.49971		1084.459	.5399E-03	.999
1	1	17	28	3	905.63952		1107.800	.1136E-03	.997
1	1	17	28	1	905.64261		1107.794	.4544E-03	.997
1	1	15	33	3	905.77529		1179.379	.3077E-03	.992
1	1	15	33	1	905.77962		1179.373	.1537E-03	.991
1	1	18	26	2	906.17602		1107.065	.2350E-03	.998
1	1	18	26	0	906.17911		1107.059	.4700E-03	.998
1	1	16	31	2	906.30719		1157.747	.3500E-03	.994
1	1	16	31	0	906.31191		1157.741	.8750E-04	.994
1	1	19	24	3	906.71594		1115.497	.1167E-03	.999
1	1	19	24	1	906.71820		1115.491	.4668E-03	.999
1	1	17	29	3	906.84254		1145.278	.9546E-04	.996
1	1	17	29	1	906.84579		1145.272	.3818E-03	.996
1	1	15	34	3	906.96298		1223.287	.2511E-03	.991
1	1	15	34	1	906.96750		1223.281	.1255E-03	.991
1	1	18	27	2	907.38508		1141.964	.1998E-03	.998
1	1	18	27	0	907.38837		1141.959	.3997E-03	.998
1	1	16	32	2	907.50088		1199.083	.2892E-03	.994
1	1	16	32	0	907.50585		1199.078	.7224E-04	.993
1	1	19	25	3	907.93098		1147.817	.1003E-03	.999
1	1	19	25	1	907.93336		1147.811	.4013E-03	.999
1	1	17	30	3	908.04218		1184.040	.7979E-04	.996
1	1	17	30	1	908.04559		1184.034	.3192E-03	.996
1	1	18	28	2	908.59077		1178.151	.1689E-03	.998
1	1	18	28	0	908.59427		1178.145	.3375E-03	.997
1	1	16	33	2	908.69118		1241.703	.2373E-03	.993
1	1	16	33	0	908.69640		1241.697	.5933E-04	.993
1	1	19	26	3	909.14266		1181.424	.8573E-04	.999
1	1	19	26	1	909.14517		1181.419	.3429E-03	.999
1	1	17	31	3	909.23843		1224.087	.6623E-04	.995
1	1	17	31	1	909.24200		1224.081	.2649E-03	.995
1	1	18	29	2	909.79308		1215.623	.1418E-03	.997
1	1	18	29	0	909.79680		1215.617	.2836E-03	.997

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i
1	1	16	34	2	909.87806		1285.605	.1935E-03	.992
1	1	16	34	0	909.88355		1285.599	.4837E-04	.992
1	1	19	27	3	910.35098		1216.319	.7277E-04	.998
1	1	19	27	1	910.35362		1216.313	.2911E-03	.998
1	1	17	32	3	910.43128		1265.418	.5468E-04	.995
1	1	17	32	1	910.43502		1265.412	.2187E-03	.995
1	1	18	30	2	910.99200		1254.380	.1184E-03	.997
1	1	18	30	0	910.99594		1254.374	.2369E-03	.997
1	1	19	28	3	911.55591		1252.499	.6146E-04	.998
1	1	19	28	1	911.55869		1252.494	.2458E-03	.998
1	1	17	33	3	911.62070		1308.032	.4483E-04	.994
1	1	17	33	1	911.62461		1308.026	.1793E-03	.994
1	1	18	31	2	912.18751		1294.421	.9822E-04	.996
1	1	18	31	0	912.19166		1294.415	.1964E-03	.996
1	1	19	29	3	912.75743		1289.966	.5160E-04	.998
1	1	19	29	1	912.76036		1289.960	.2064E-03	.998
1	1	17	34	3	912.80668		1351.928	.3652E-04	.993
1	1	17	34	1	912.81077		1351.922	.1461E-03	.993
1	1	18	32	2	913.37958		1335.746	.8103E-04	.996
1	1	18	32	0	913.38397		1335.740	.1619E-03	.995
1	1	19	30	3	913.95554		1328.717	.4302E-04	.997
1	1	19	30	1	913.95862		1328.711	.1721E-03	.997
1	1	18	33	2	914.56821		1378.354	.6638E-04	.995
1	1	18	33	0	914.57284		1378.348	.1328E-03	.995
1	1	19	31	3	915.15022		1368.752	.3568E-04	.997
1	1	19	31	1	915.15344		1368.746	.1427E-03	.997
1	1	18	34	2	915.75338		1422.244	.5404E-04	.994
1	1	18	34	0	915.75825		1422.238	.1081E-03	.994
1	1	19	32	3	916.34144		1410.071	.2939E-04	.996
1	1	19	32	1	916.34482		1410.065	.1175E-03	.996
1	1	19	33	3	917.52919		1452.673	.2408E-04	.996
1	1	19	33	1	917.53273		1452.667	.9632E-04	.996
1	1	19	34	3	918.71346		1496.556	.1959E-04	.995
1	1	19	34	1	918.71717		1496.550	.7836E-04	.995

ΔK	ΔJ	K	J	σ	ν_i	o–c	E''_i	S_i	W_i

Appendix B

Observed and Calculated FTS Spectra of ν_{12} $^{13}C^{12}CH_6$

Top trace:

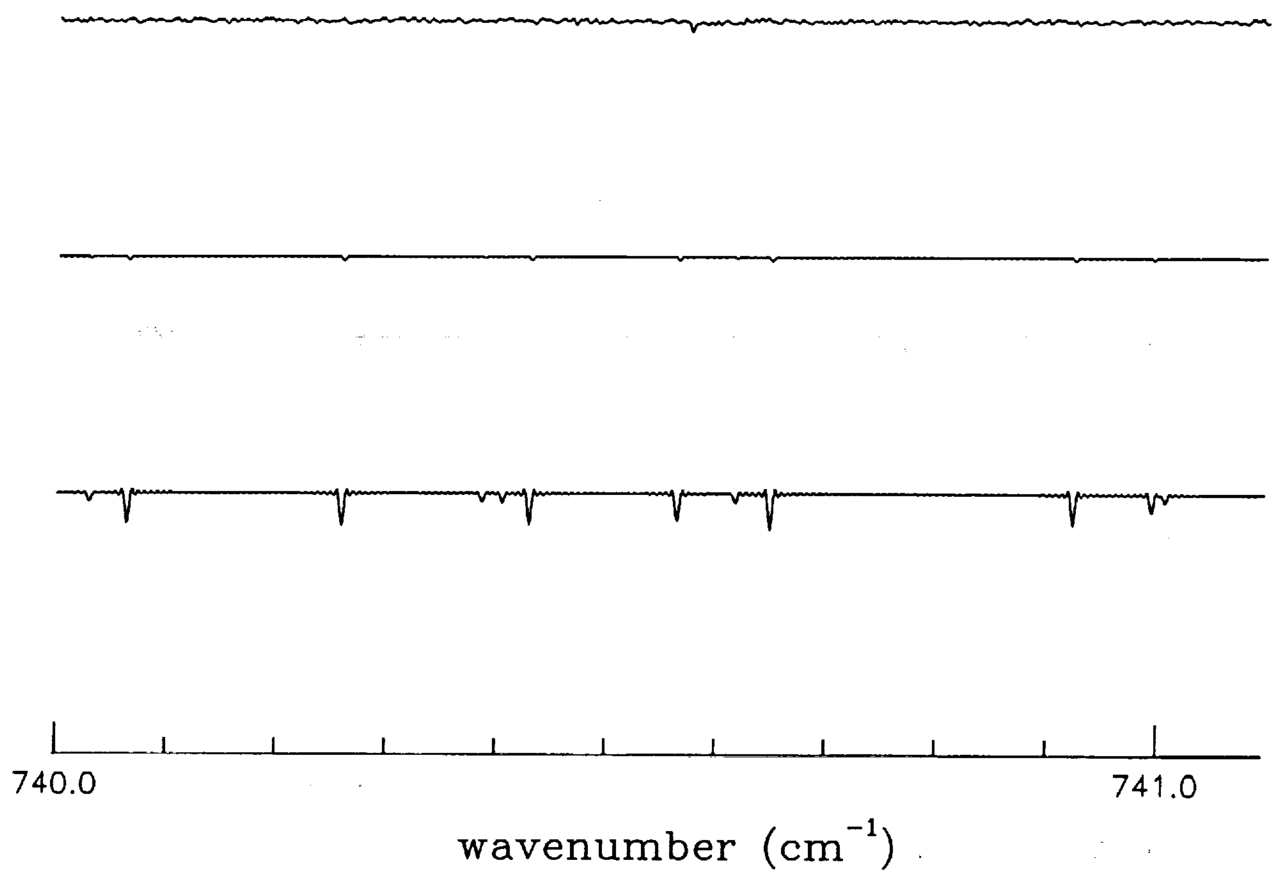
Observed at $p = 1.05$ Torr, ℓ=1.5 m and $T = 294$ K.

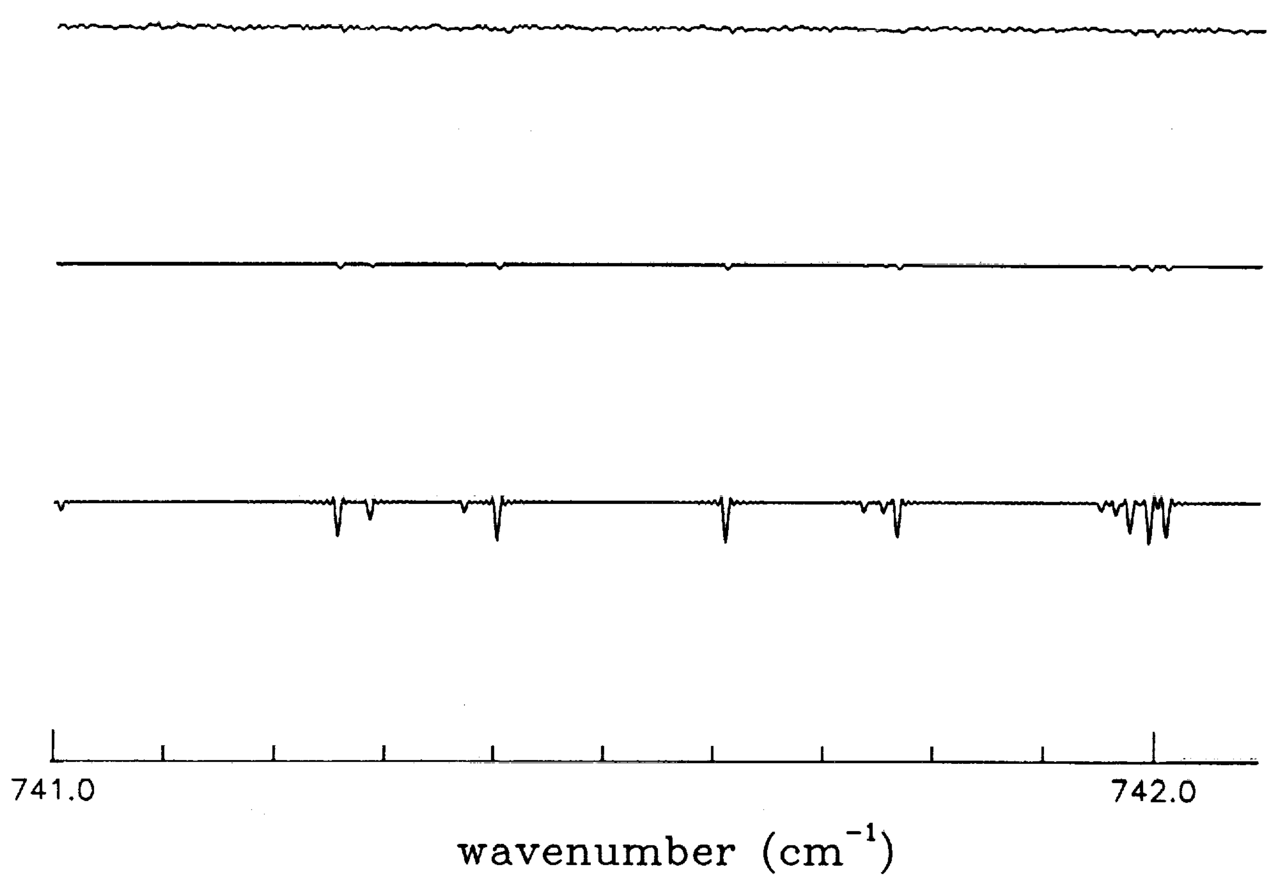
Middle trace:

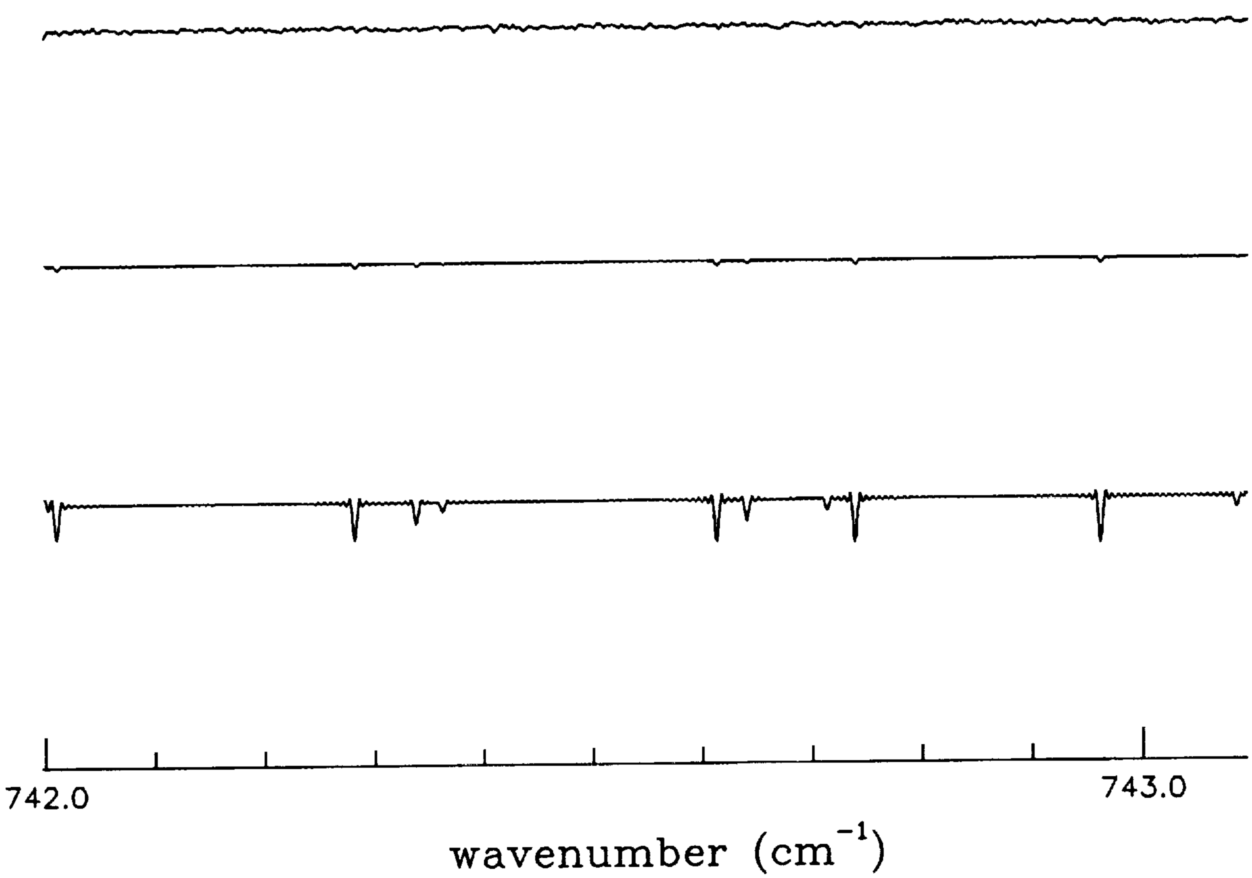
Calculated at $p = 1.05$ Torr, ℓ=1.5 m and $T = 294$ K. Spectrum shown on a scale from 0% to 100% transmission.

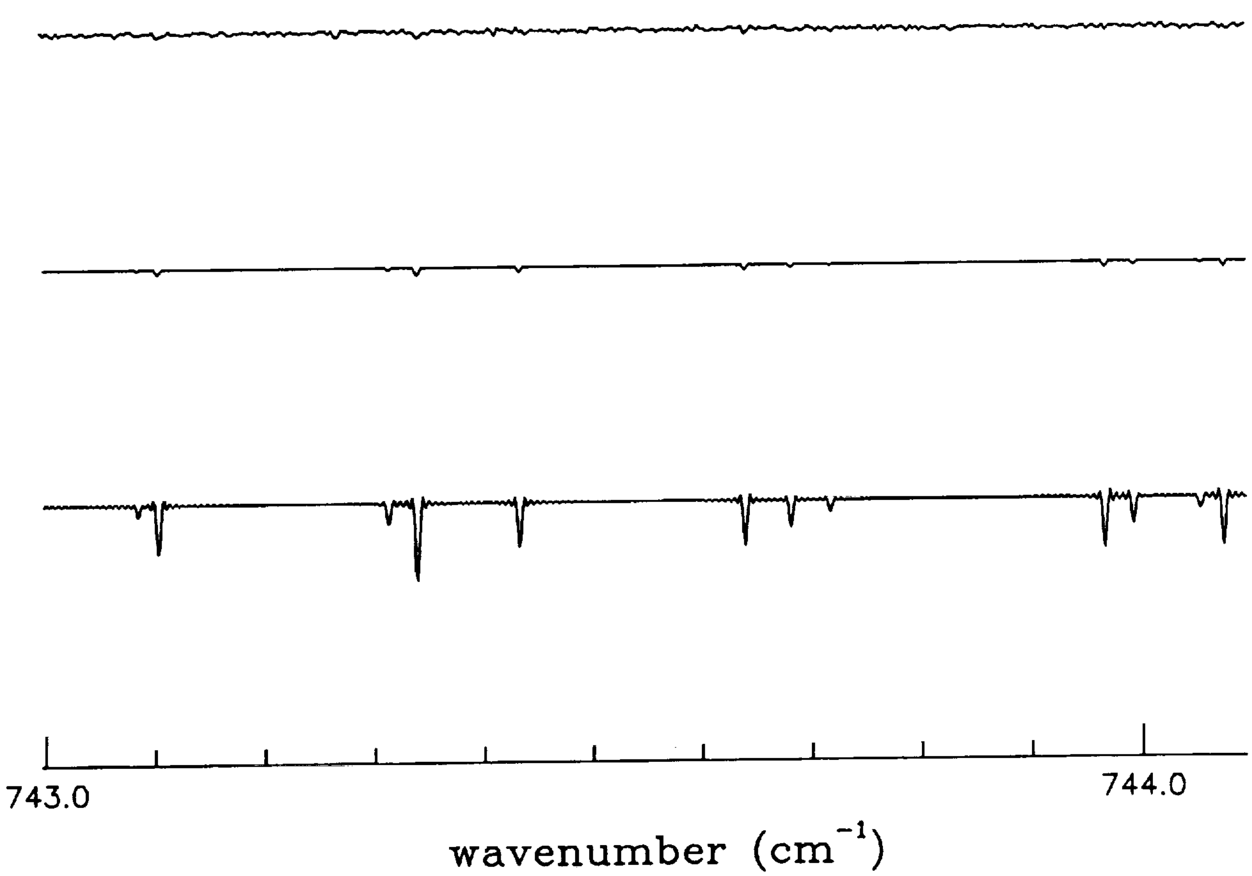
Bottom trace:

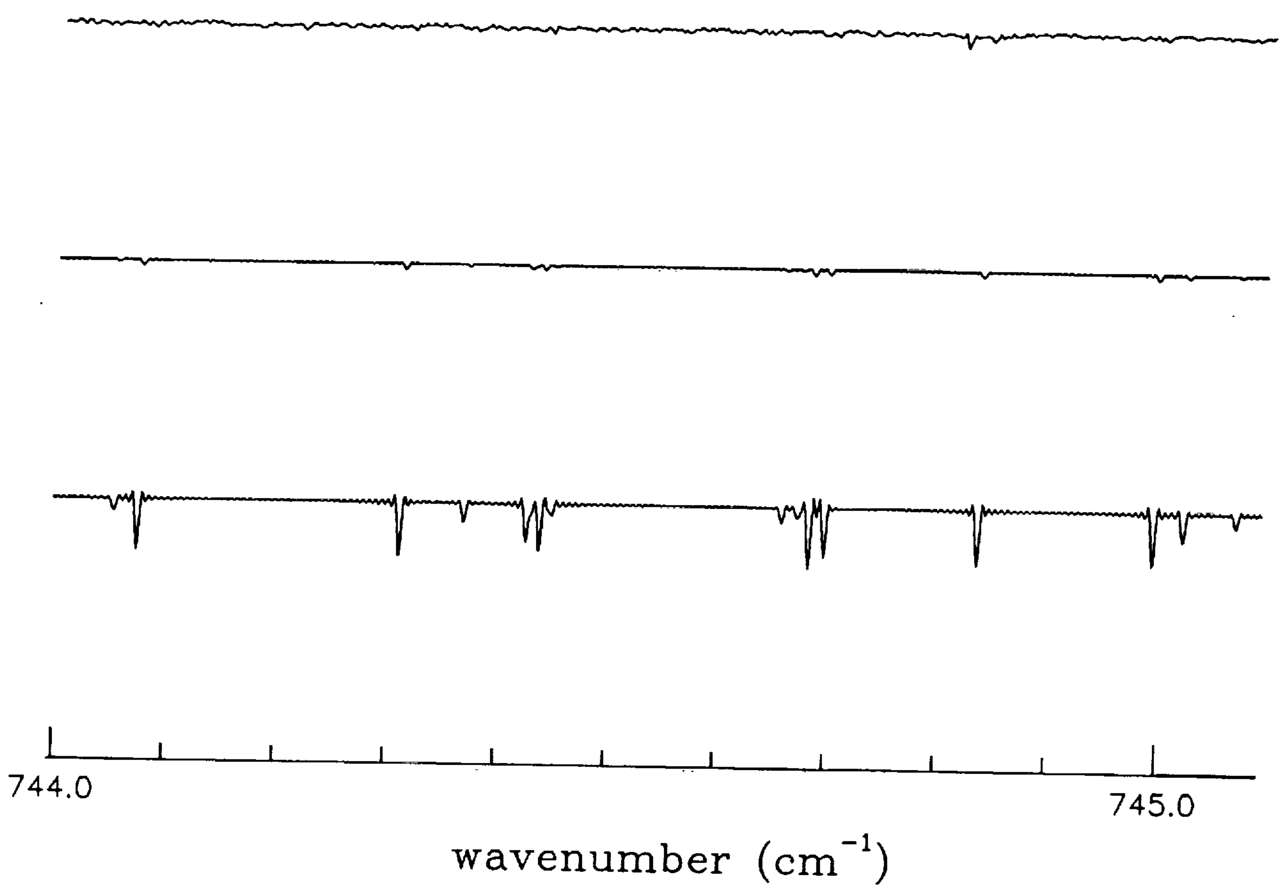
Same as middle trace. Spectrum shown on a blown up scale from 90% to 100% transmission.

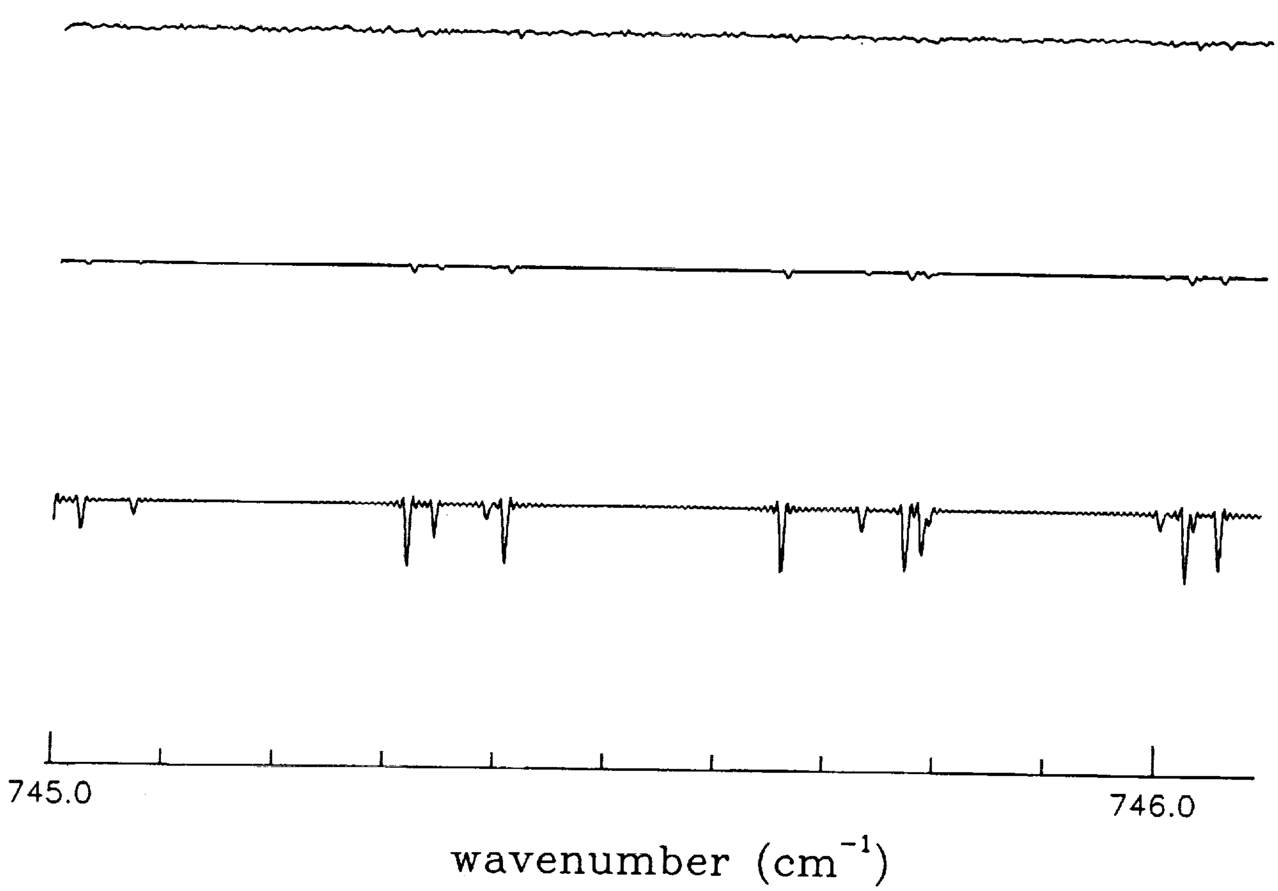

740.0
741.0
wavenumber (cm⁻¹)


741.0
742.0
wavenumber (cm⁻¹)


742.0
743.0
wavenumber (cm^{-1})


743.0
744.0
wavenumber (cm^{-1})


744.0
745.0
wavenumber (cm^{-1})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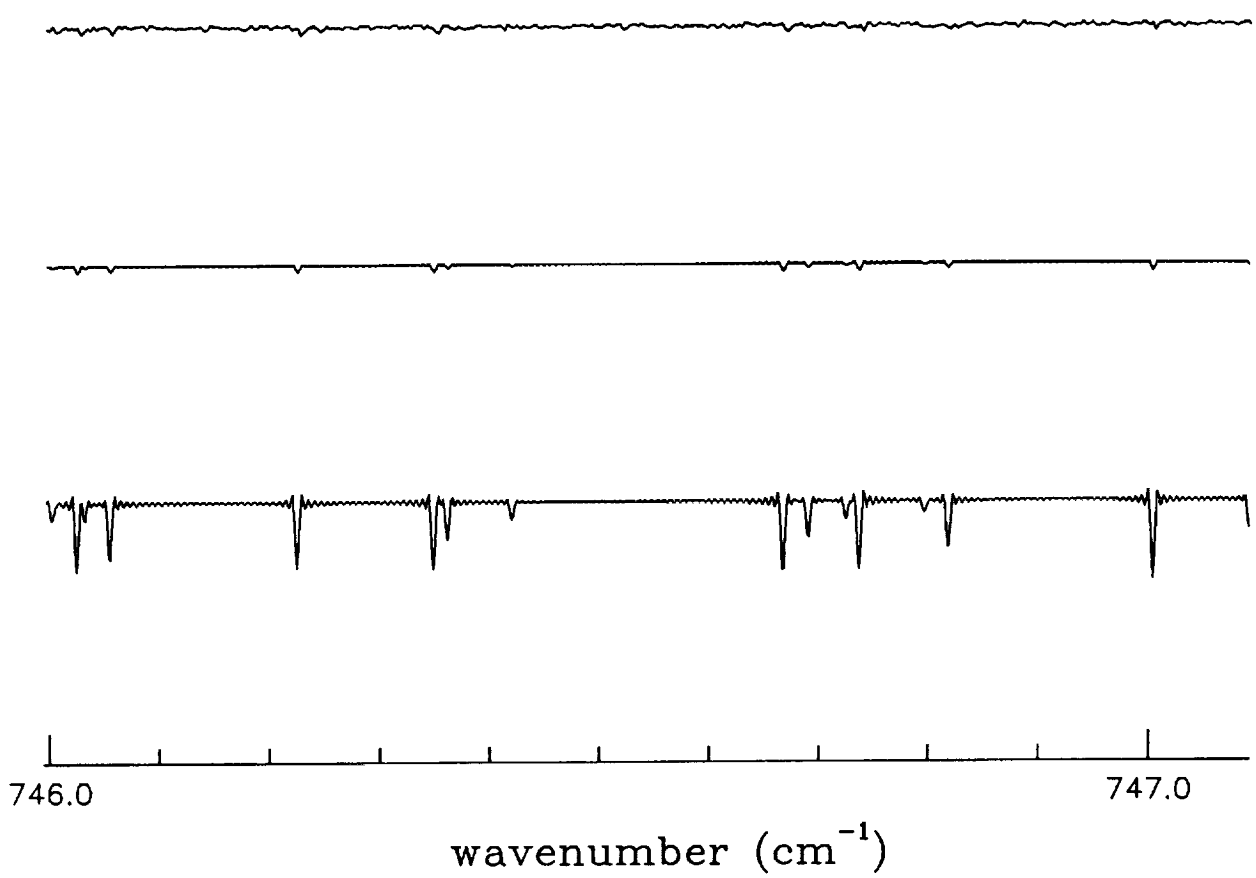
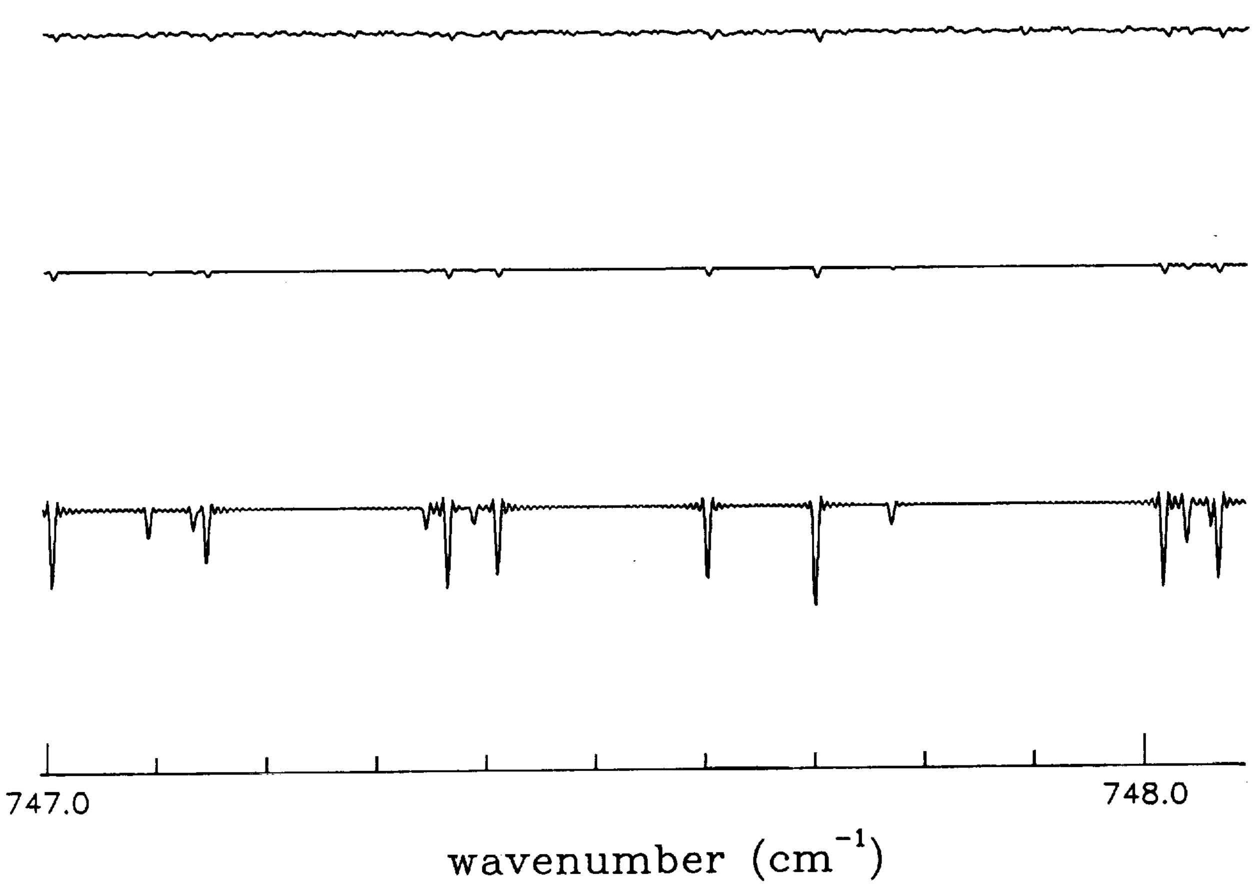
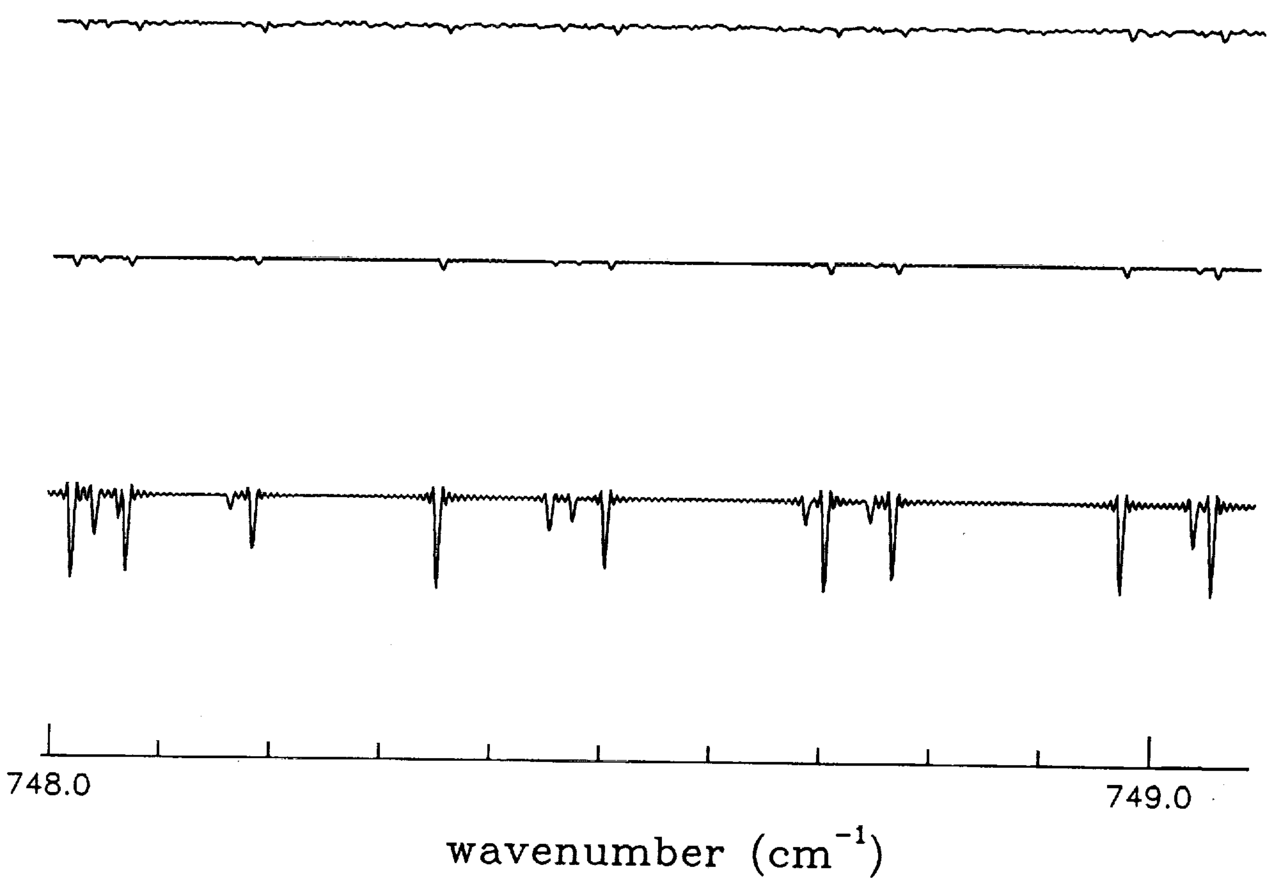
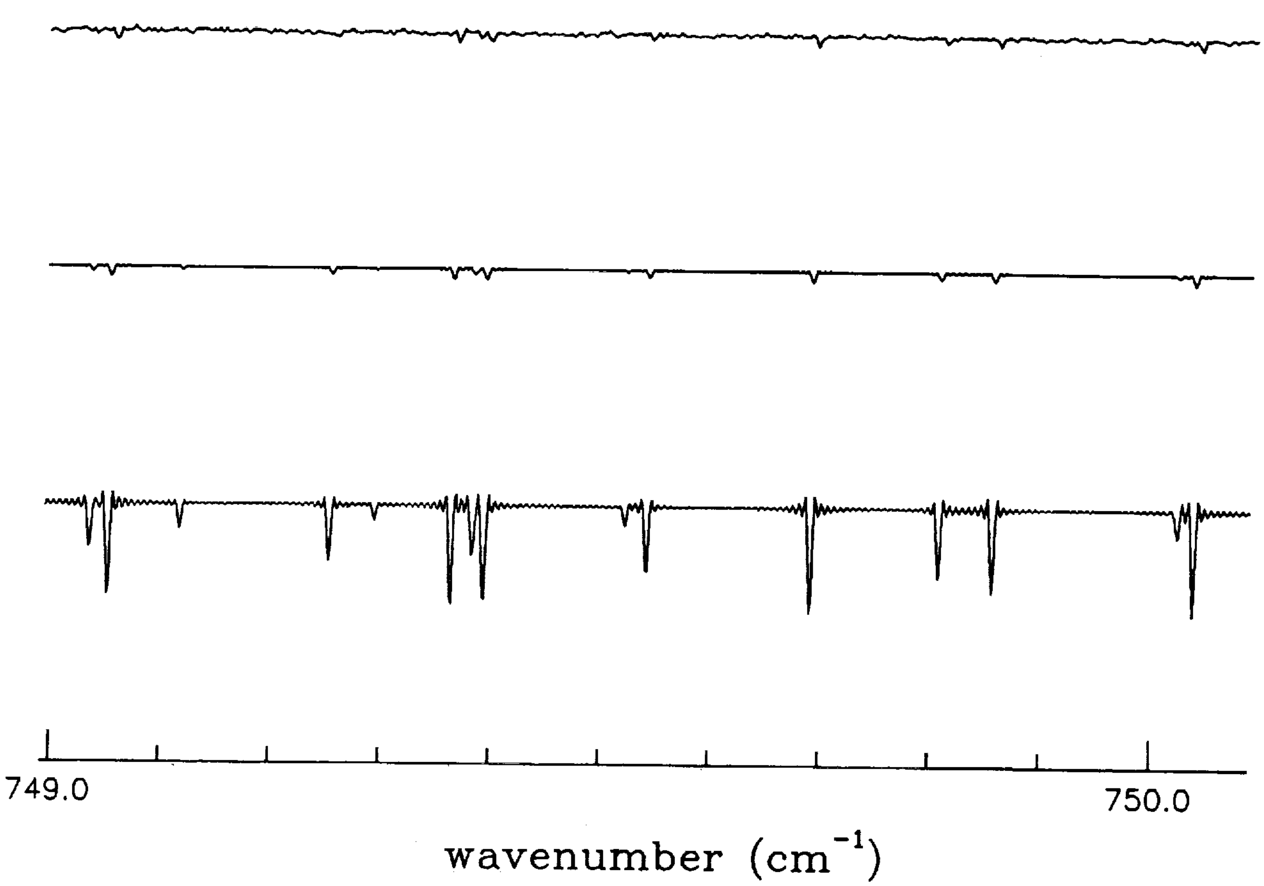
746.0
wavenumber (cm^{-1})





C-2


748.0
749.0
wavenumber (cm^{-1})


749.0
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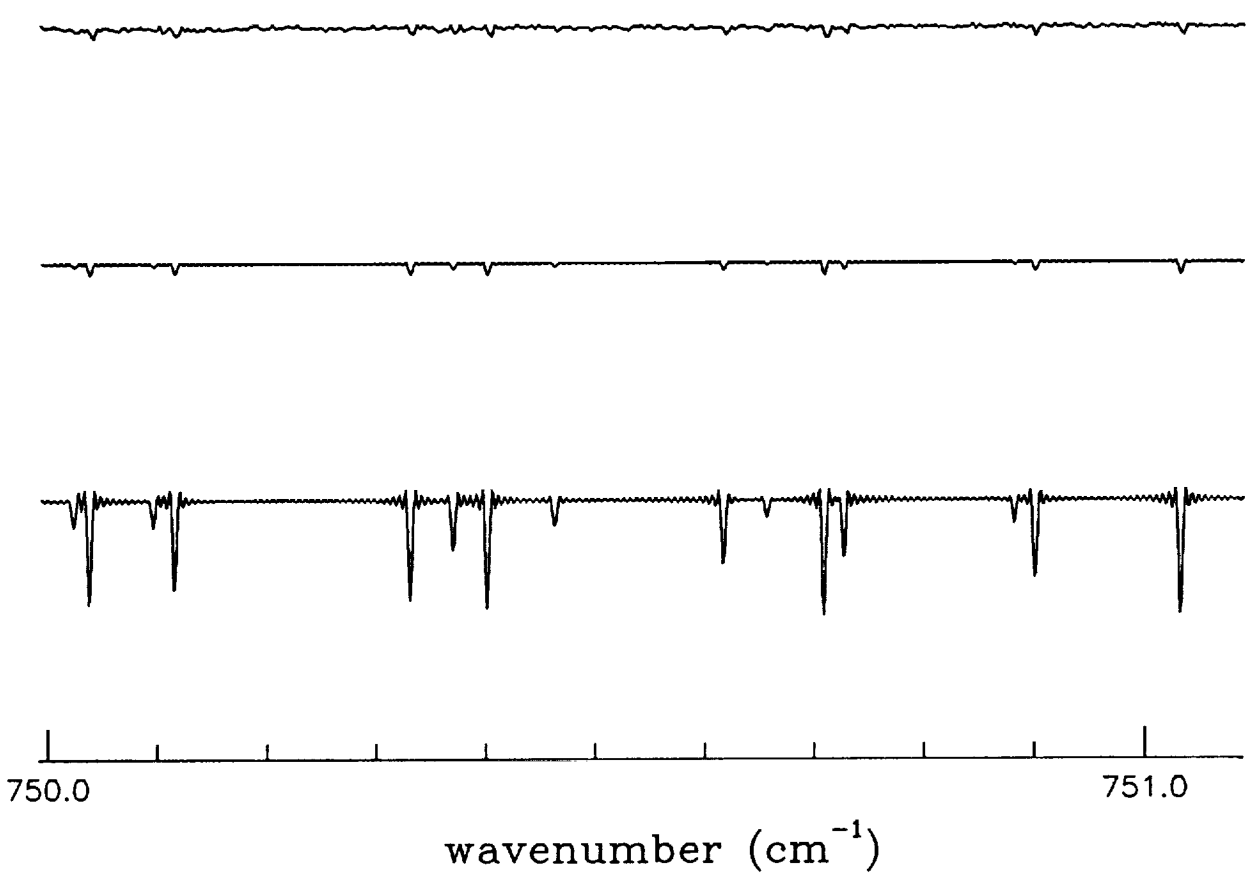
wavenumber (cm^{-1})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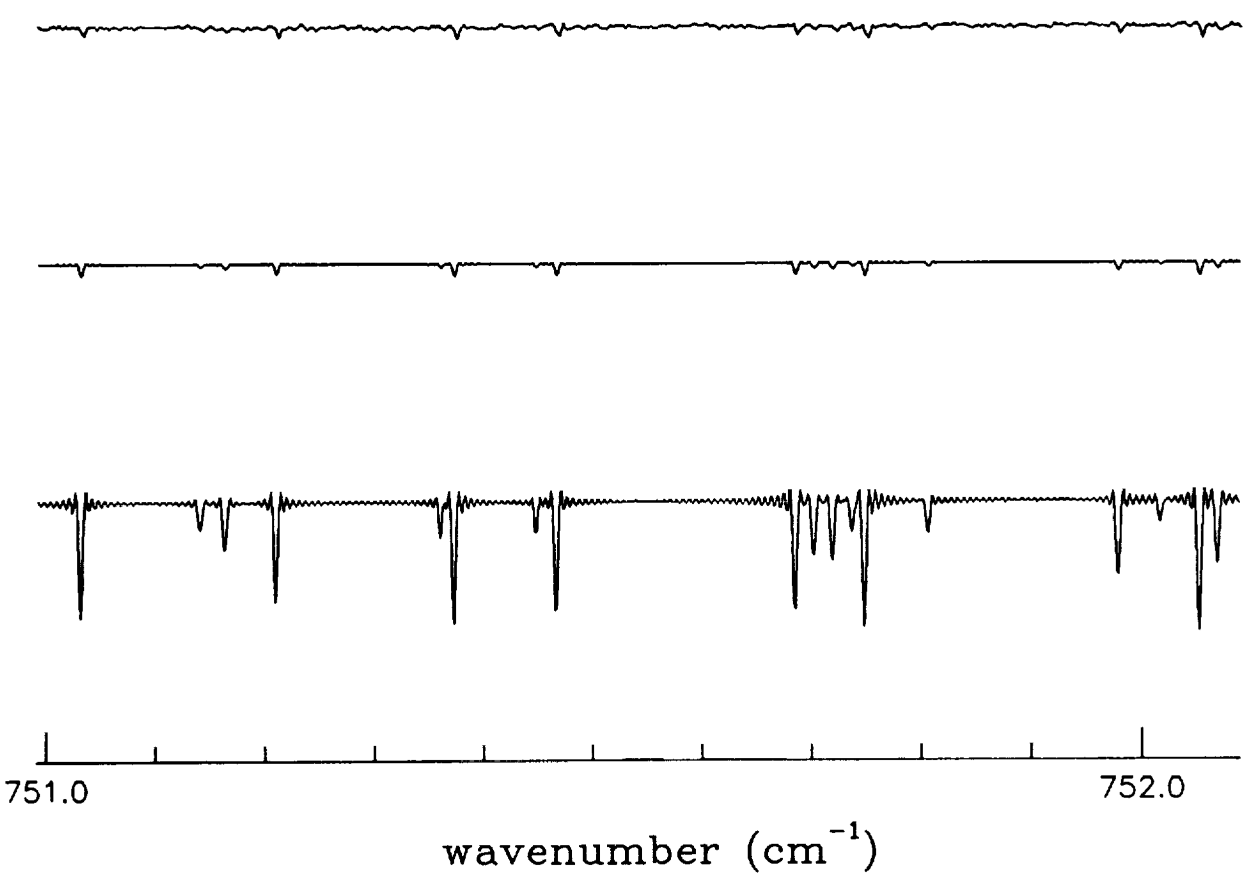
751.0
wavenumber (cm⁻¹)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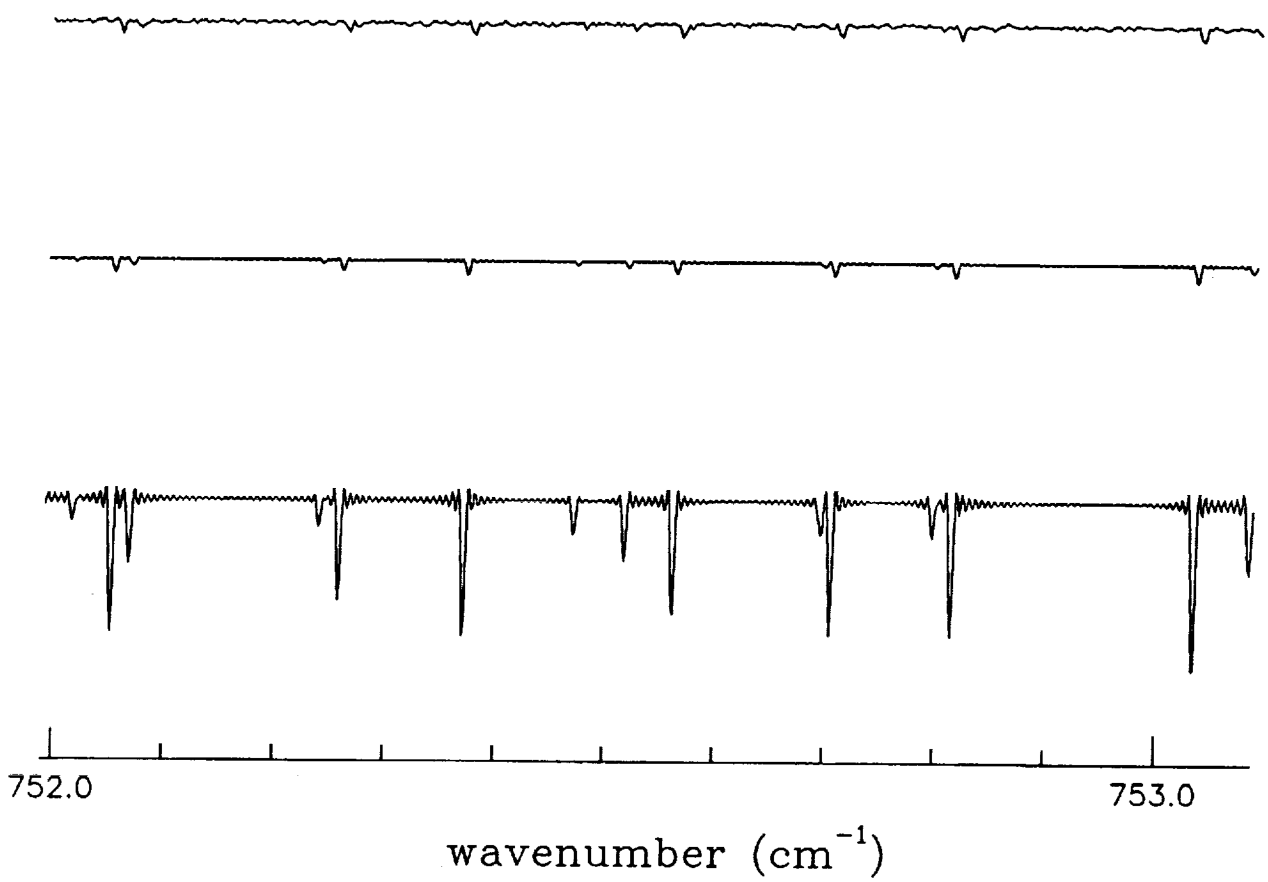
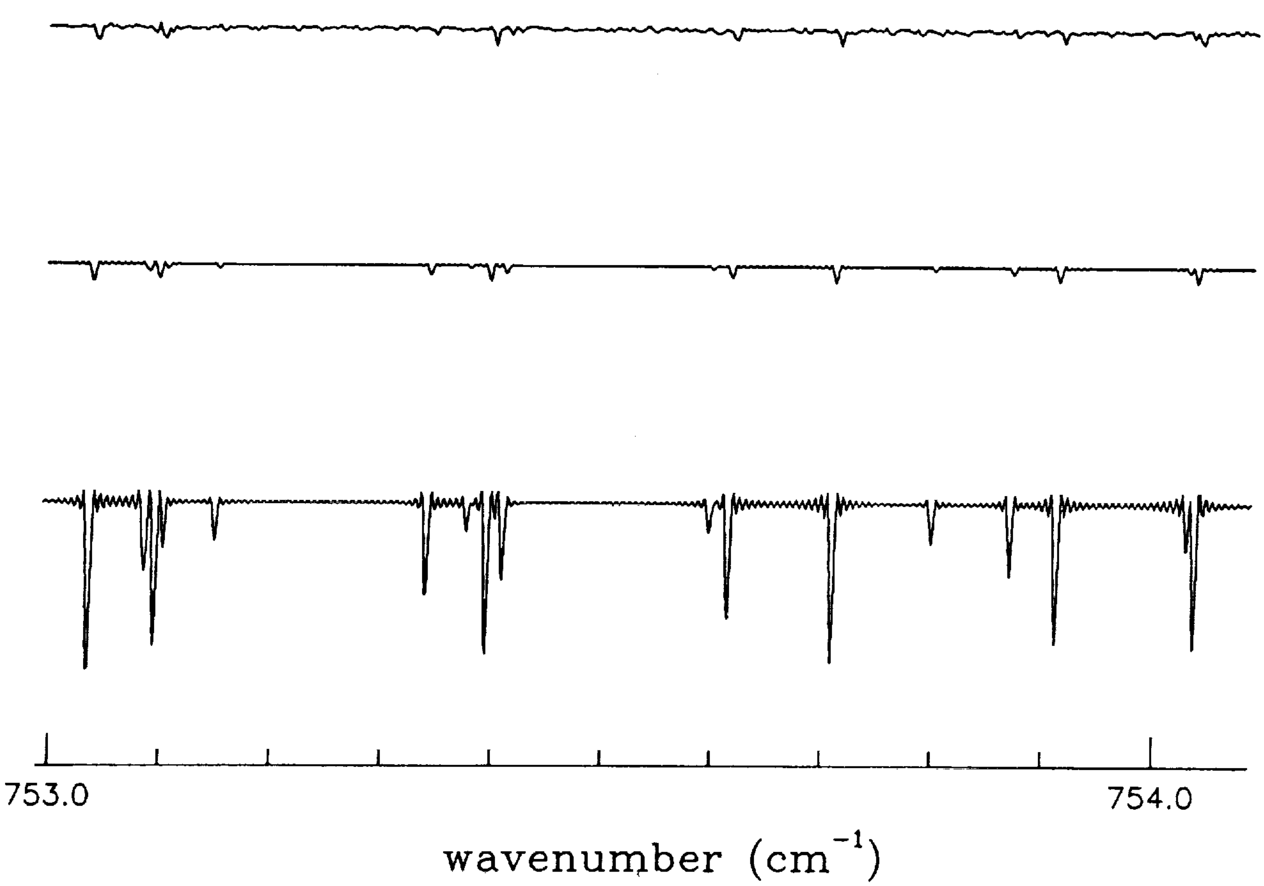
752.0
wavenumber (cm⁻¹)


752.0
753.0
wavenumber (cm^{-1})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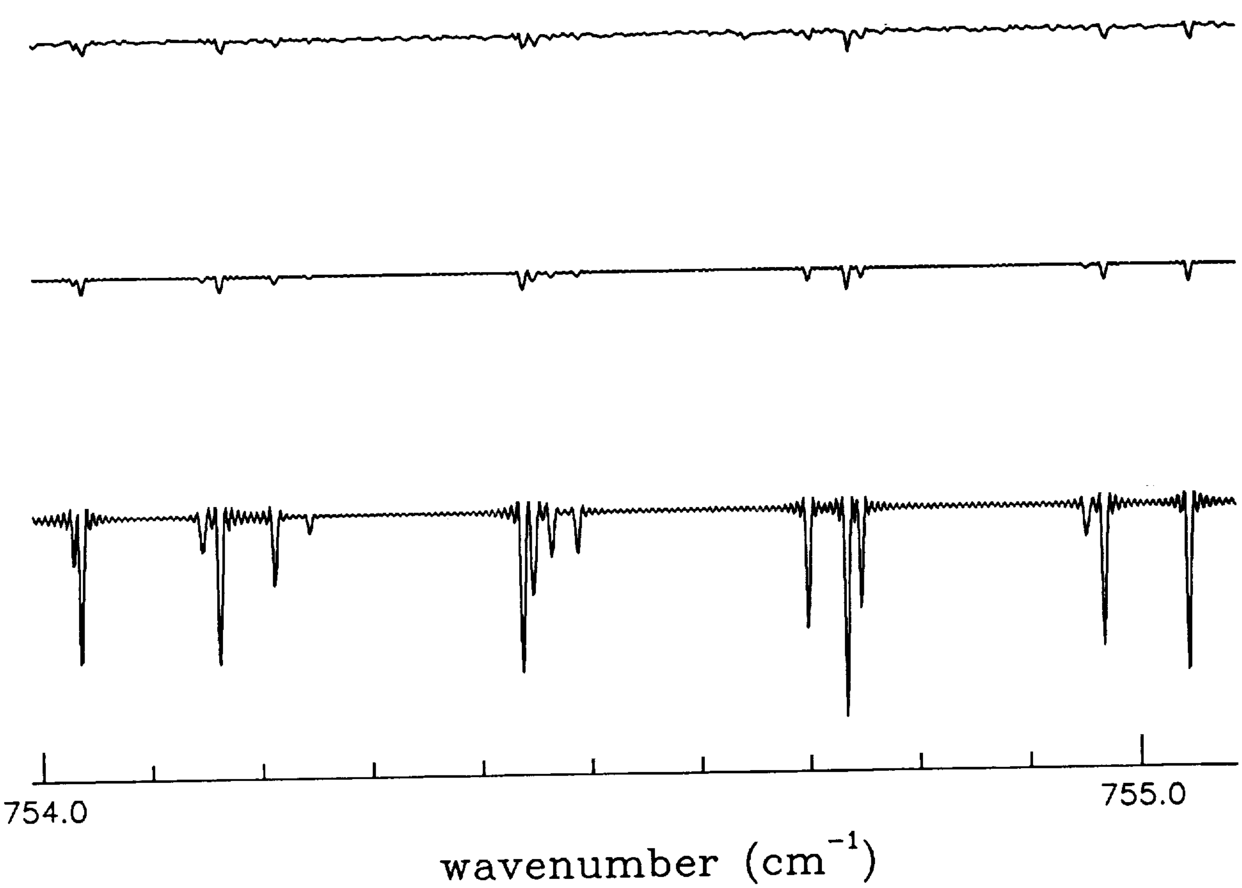
wavenumber (cm^{-1})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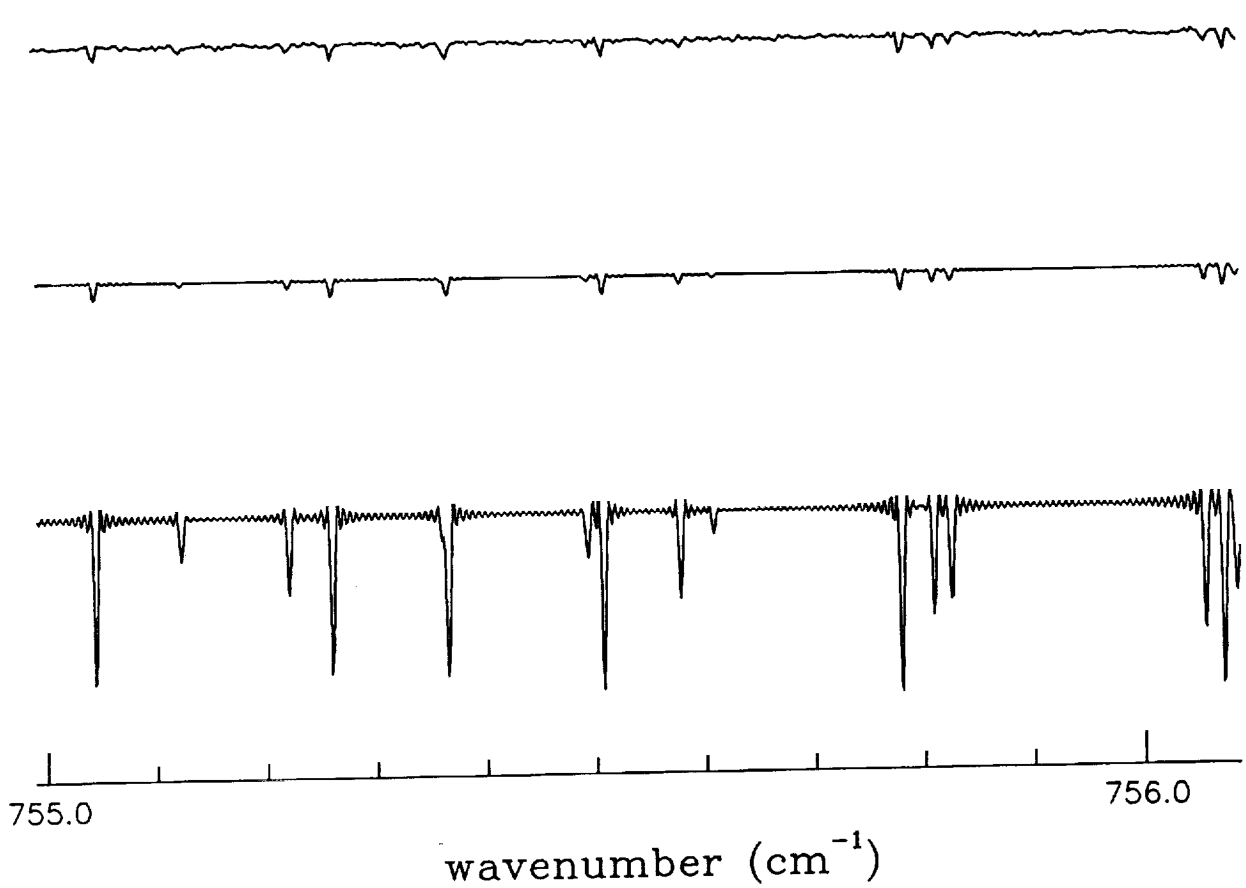
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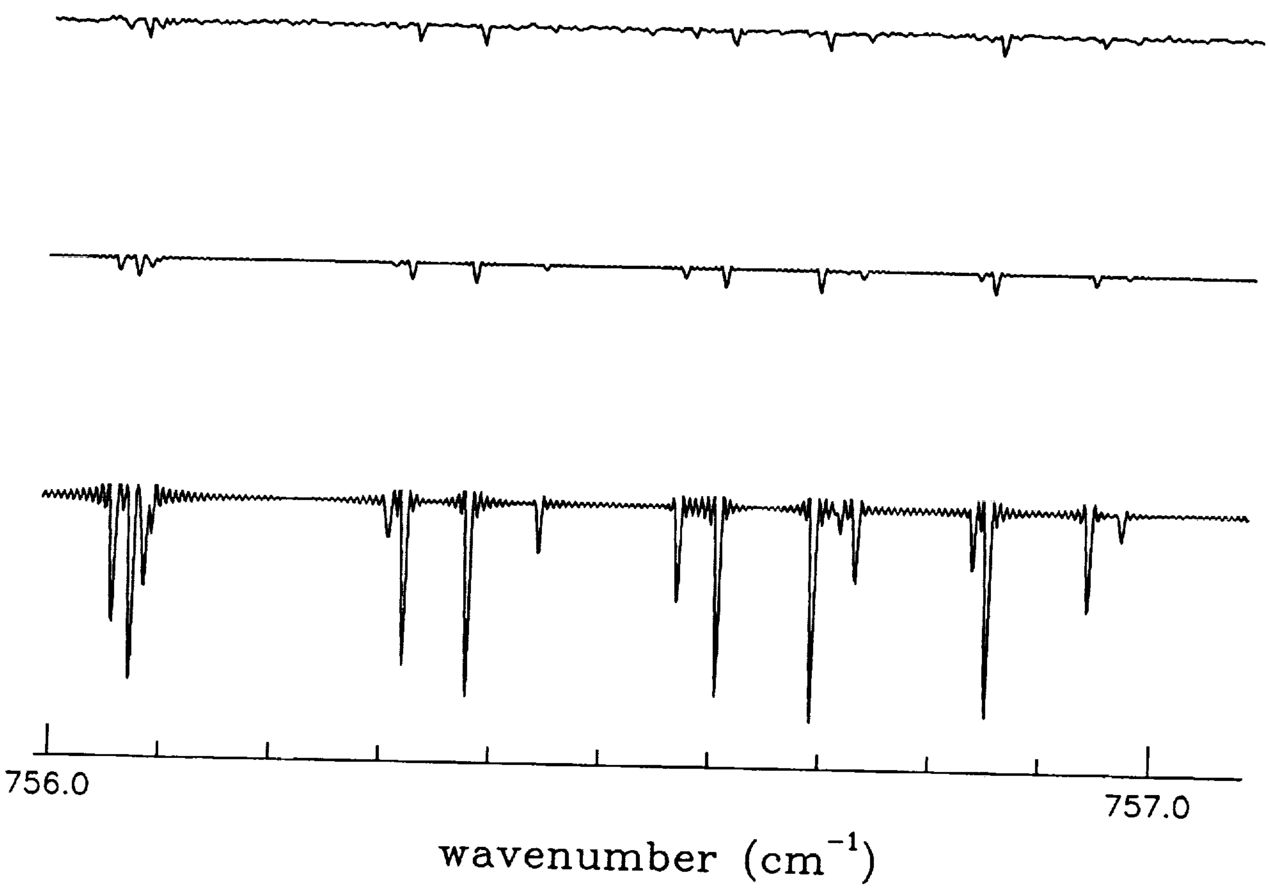

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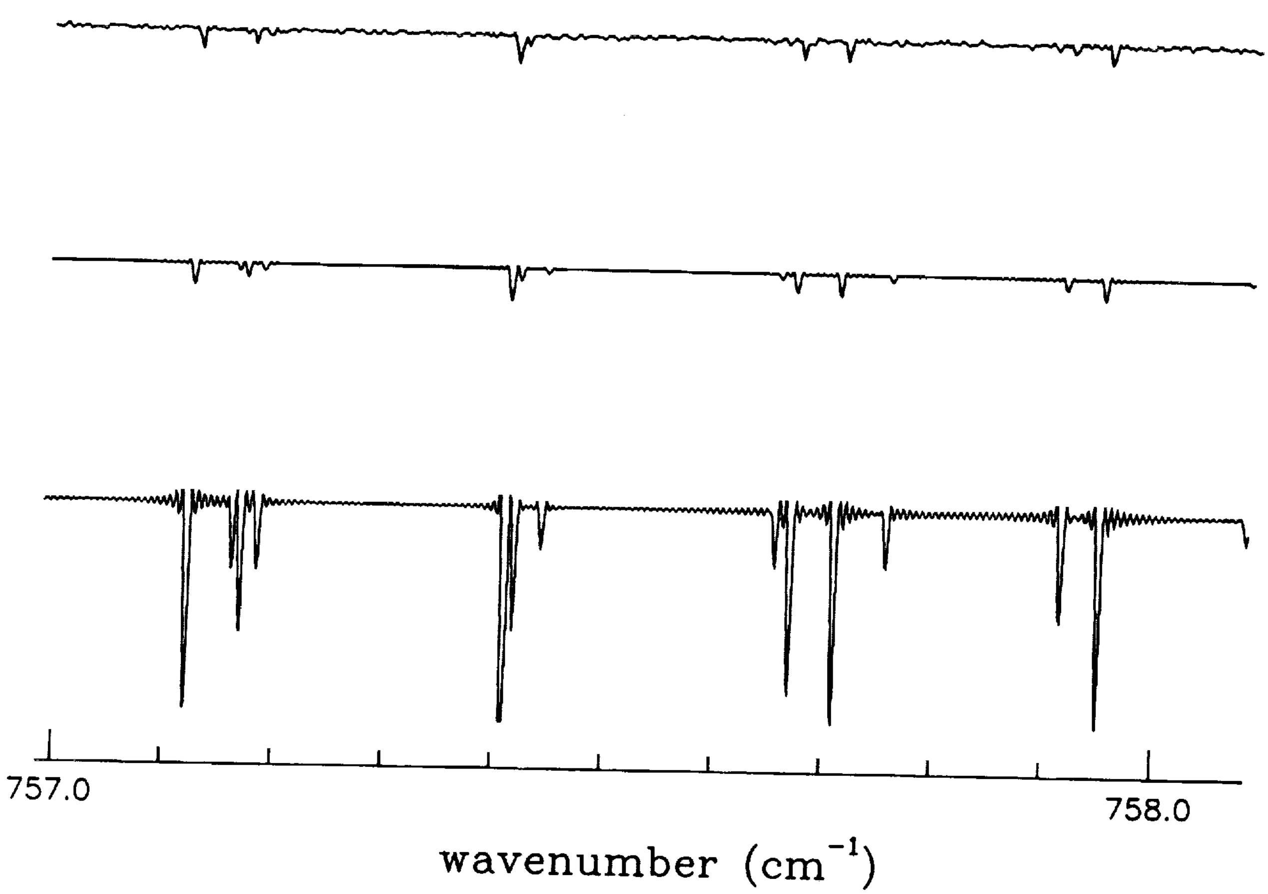
wavenumber (cm⁻¹)



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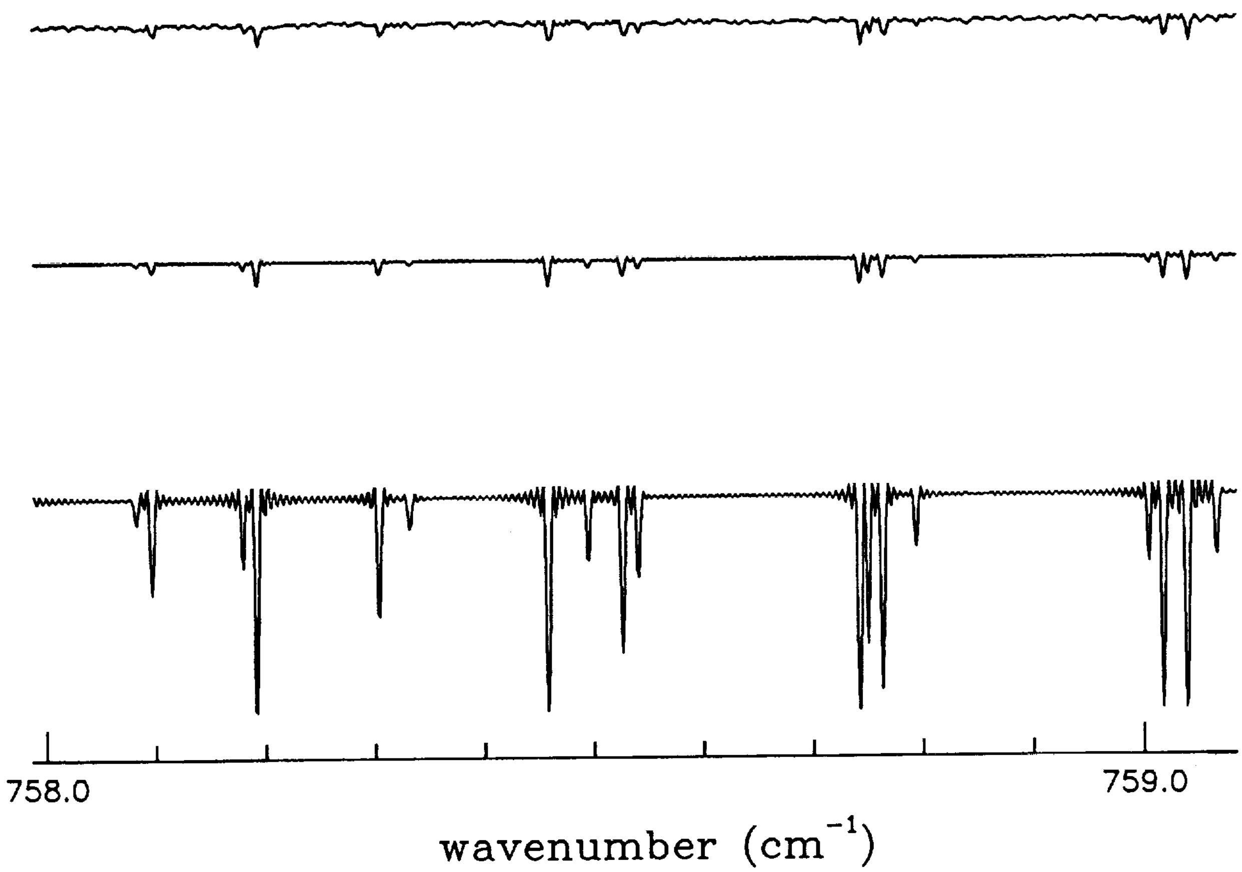
wavenumber (cm⁻¹)



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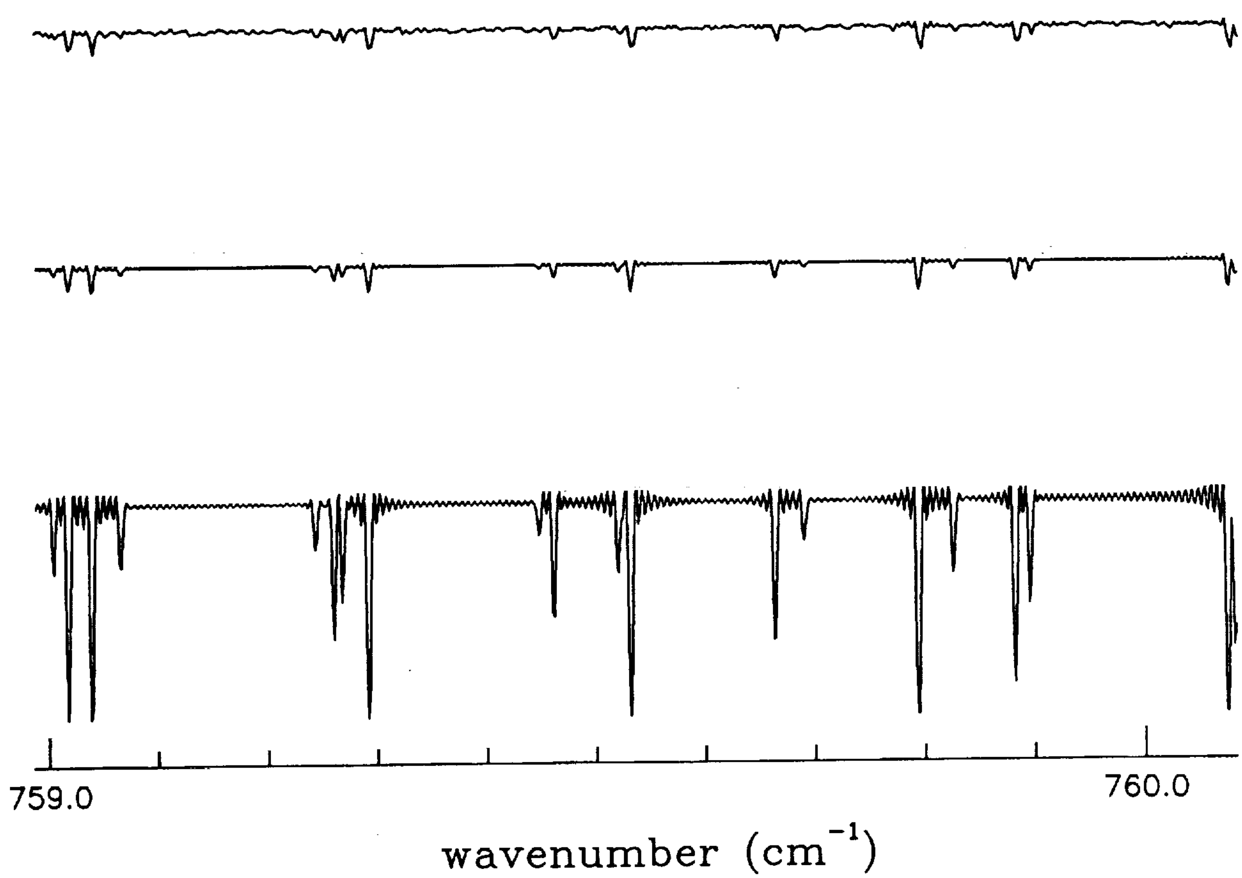
wavenumber (cm^{-1})



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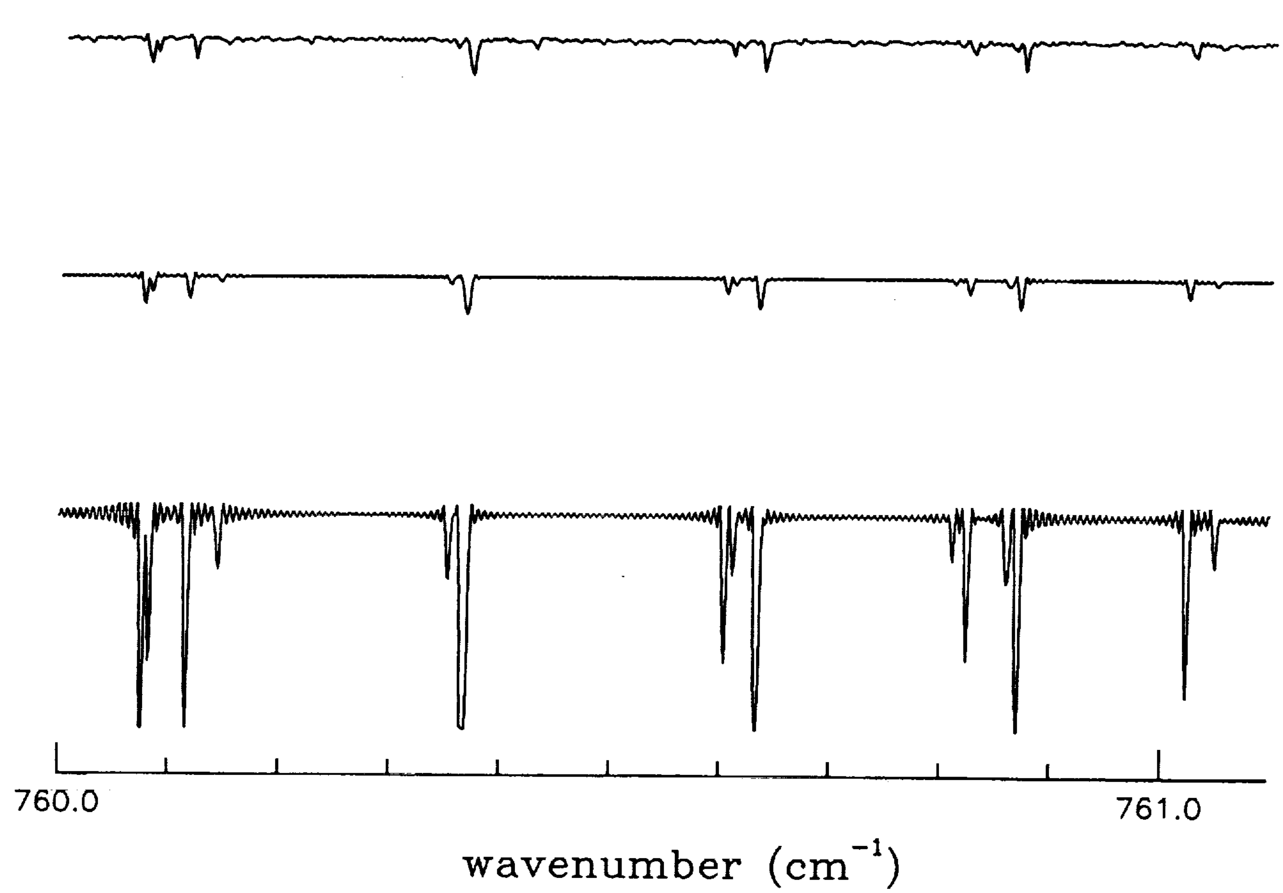
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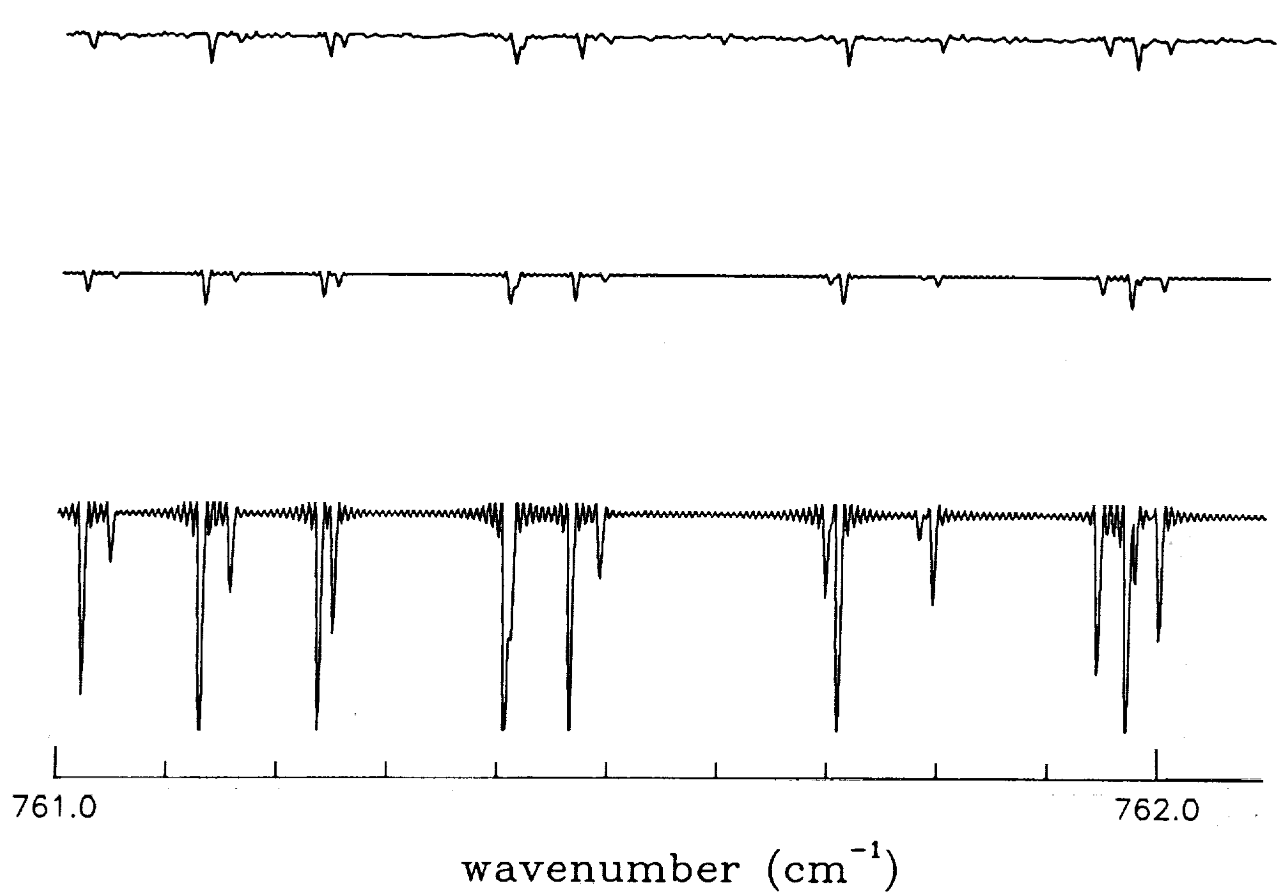
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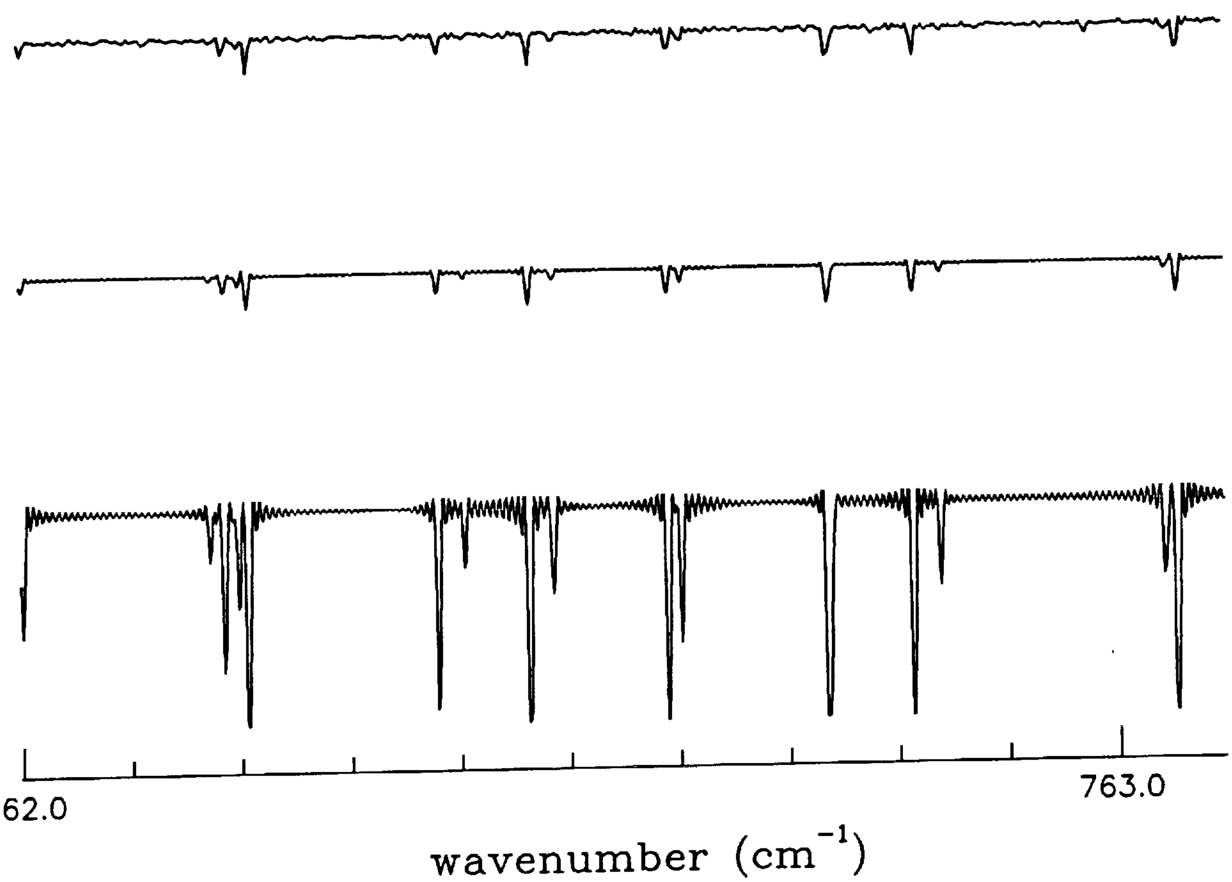
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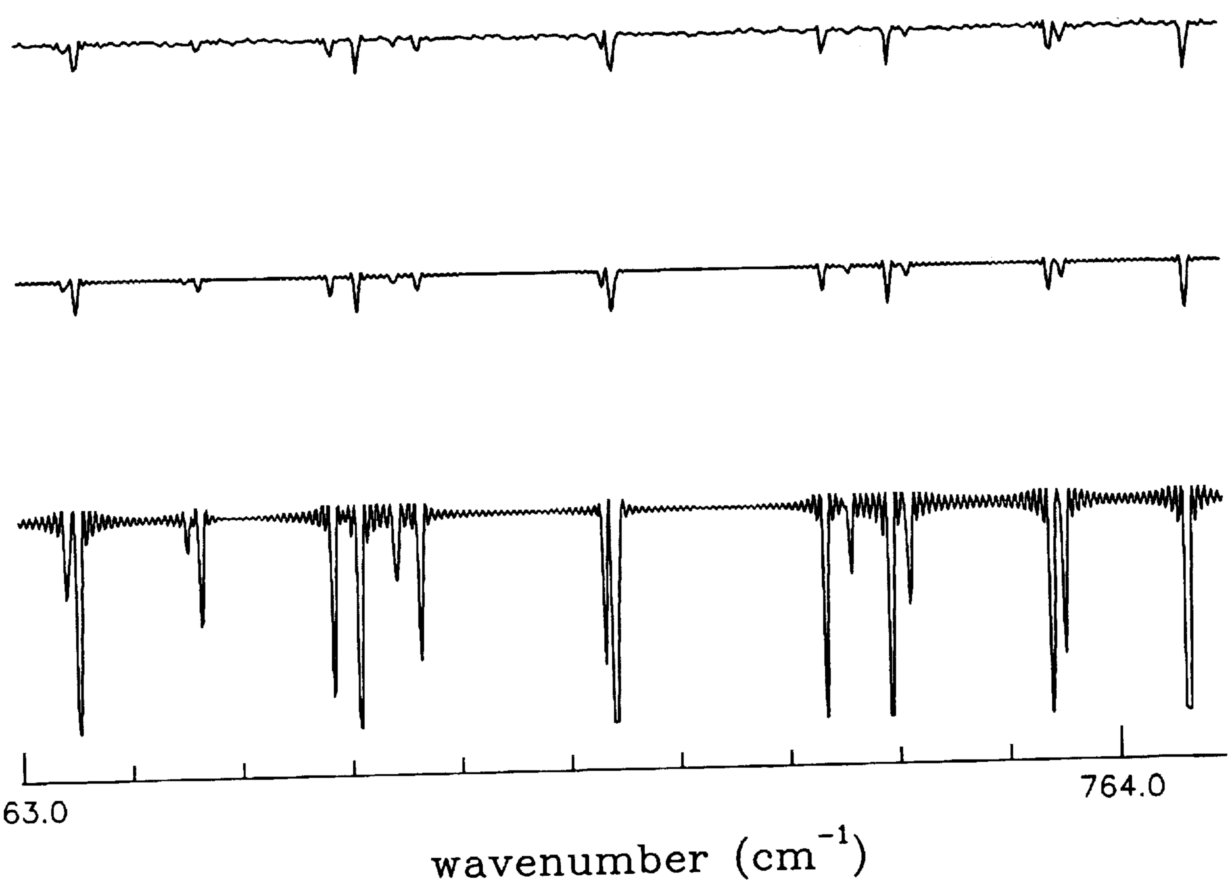
wavenumber (cm⁻¹)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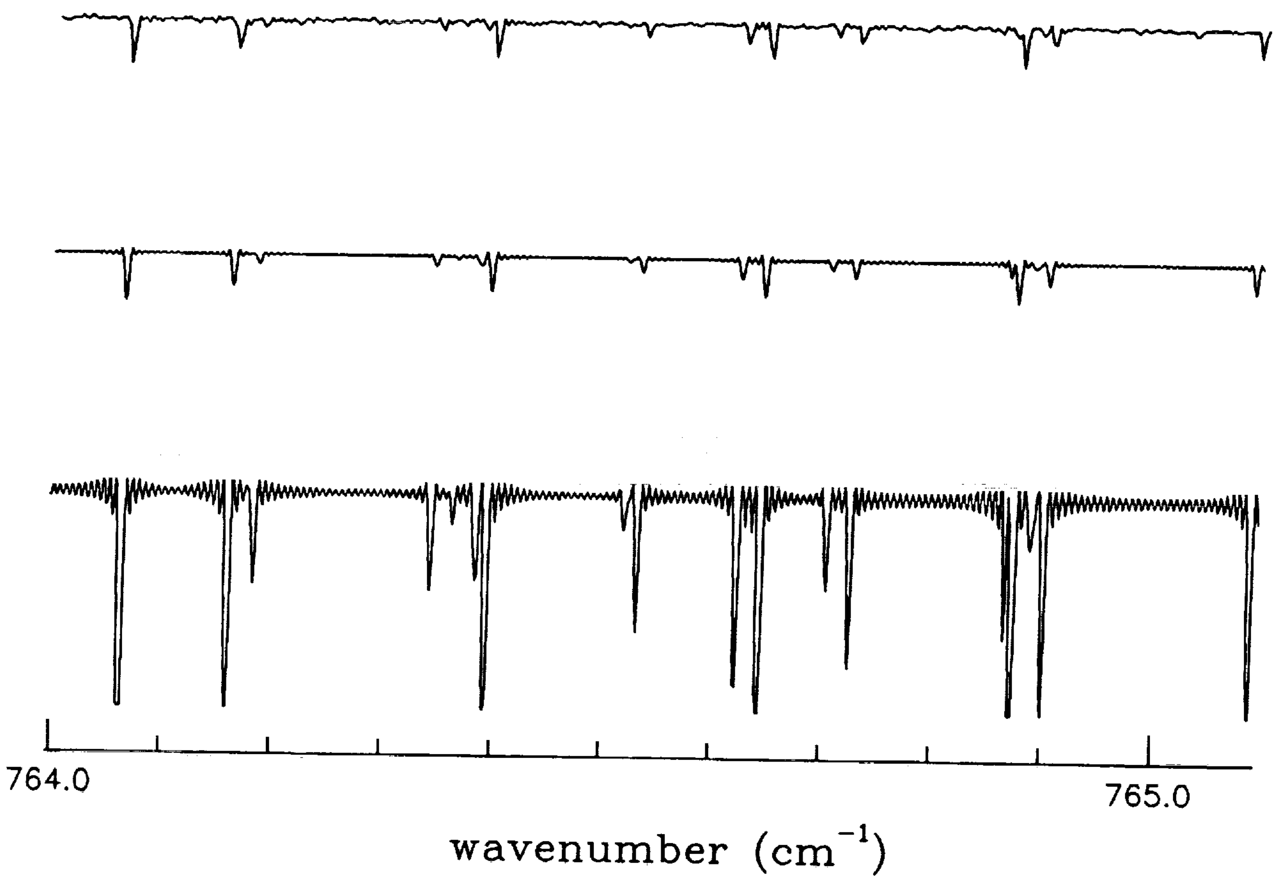
wavenumber (cm⁻¹)



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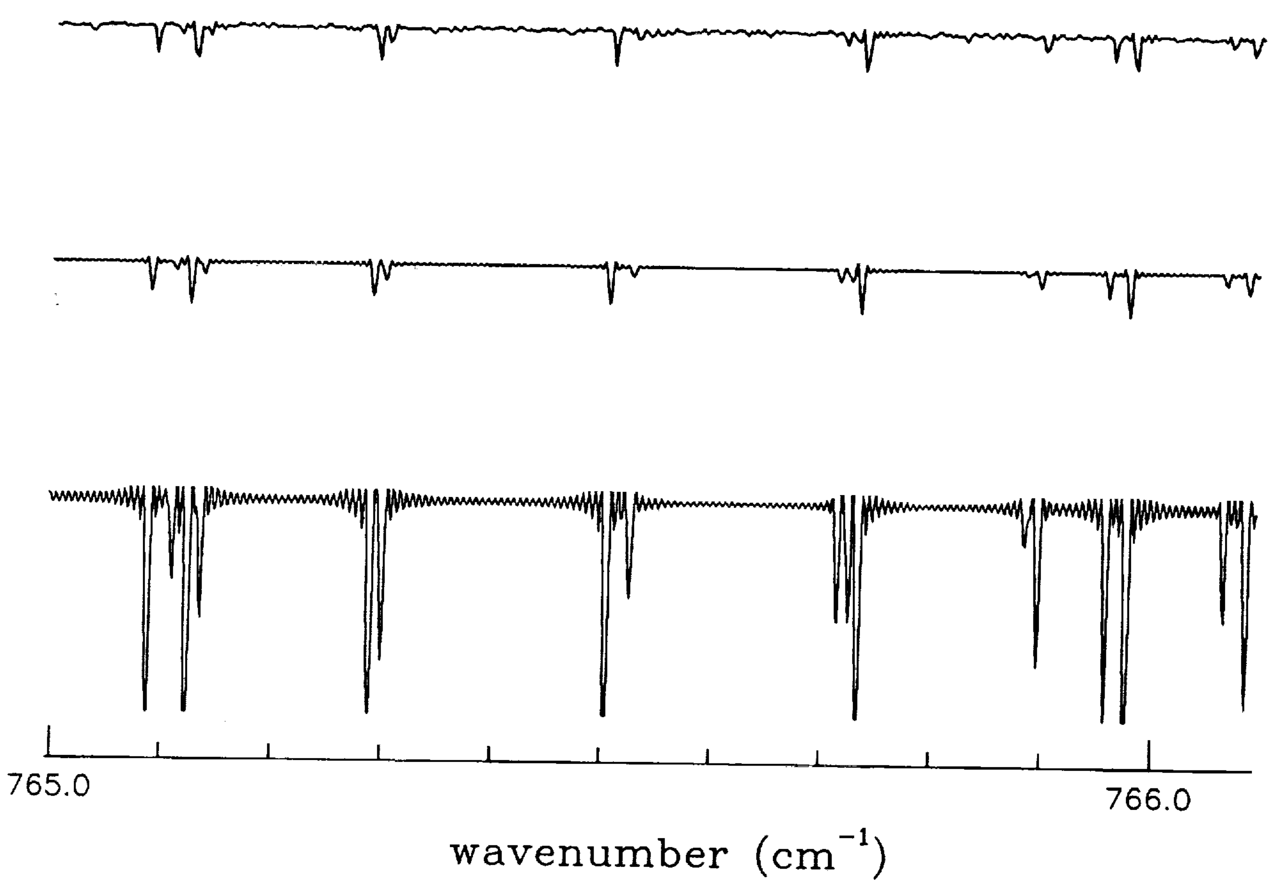
wavenumber (cm^{-1})



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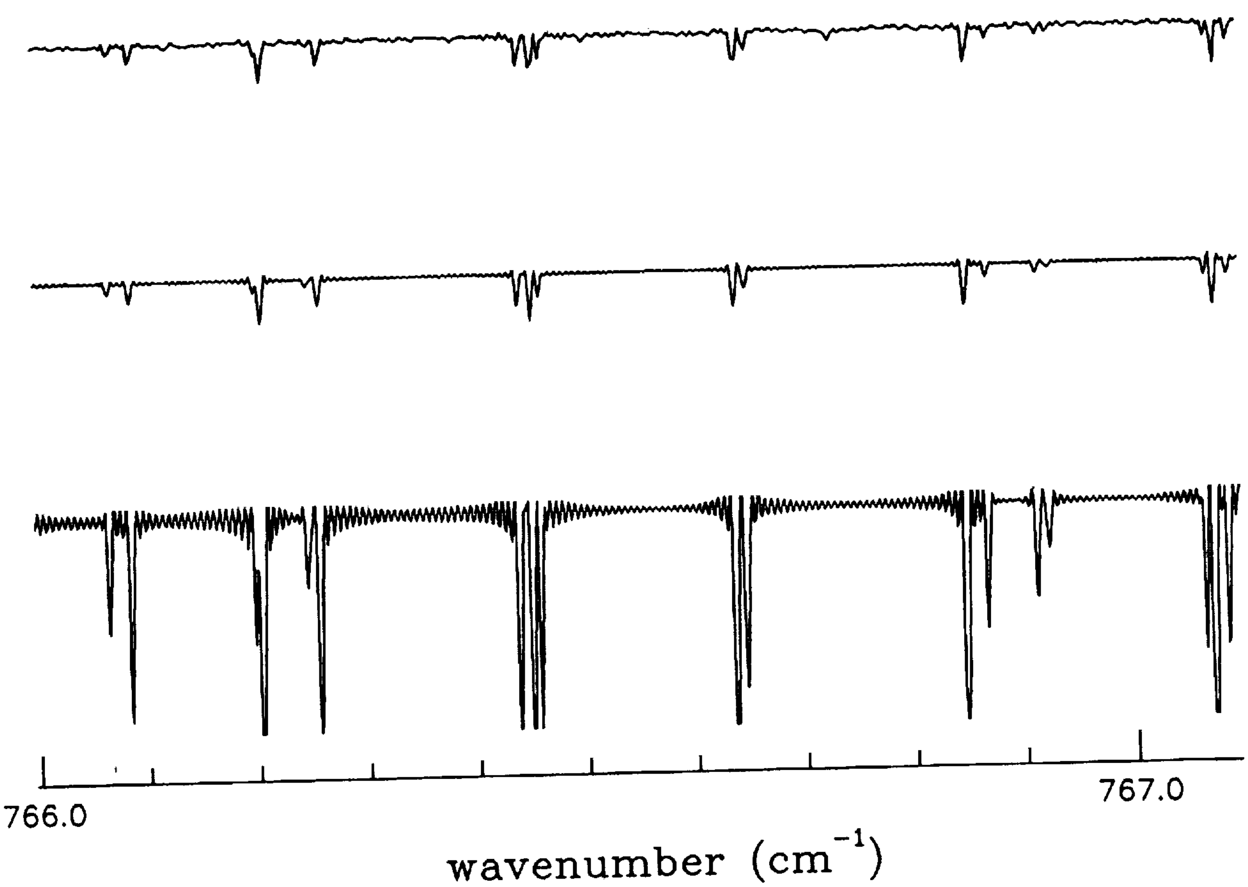
wavenumber (cm^{-1})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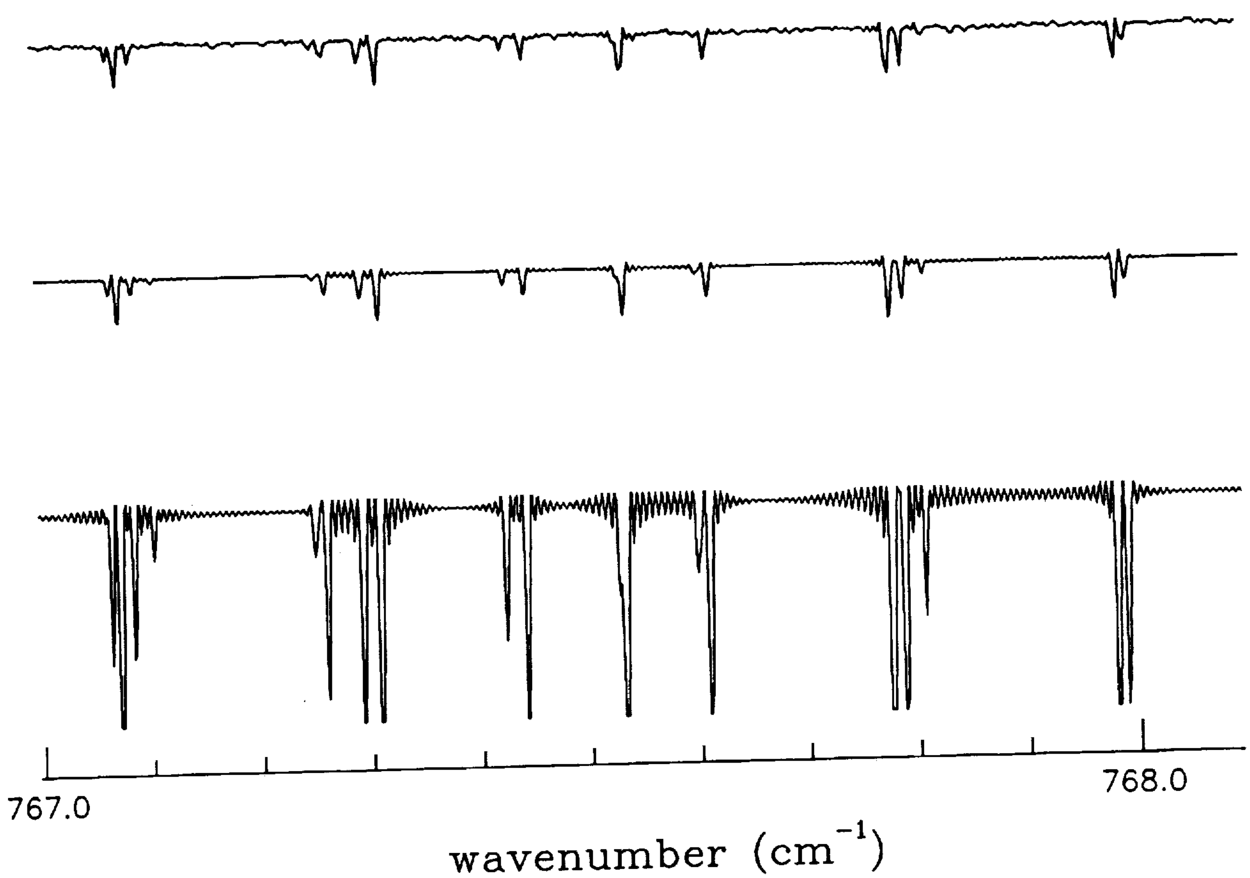
wavenumber (cm^-1)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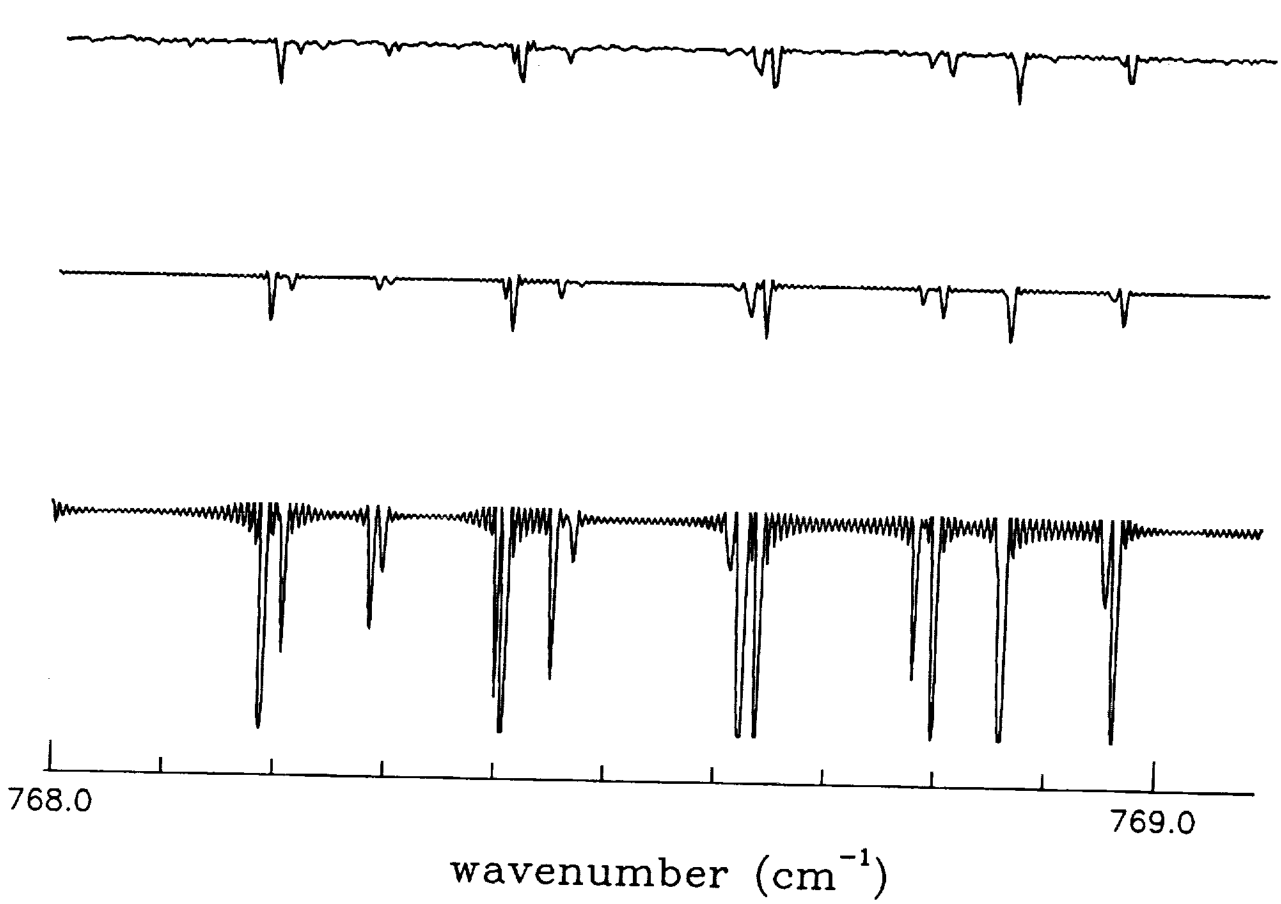
wavenumber (cm^-1)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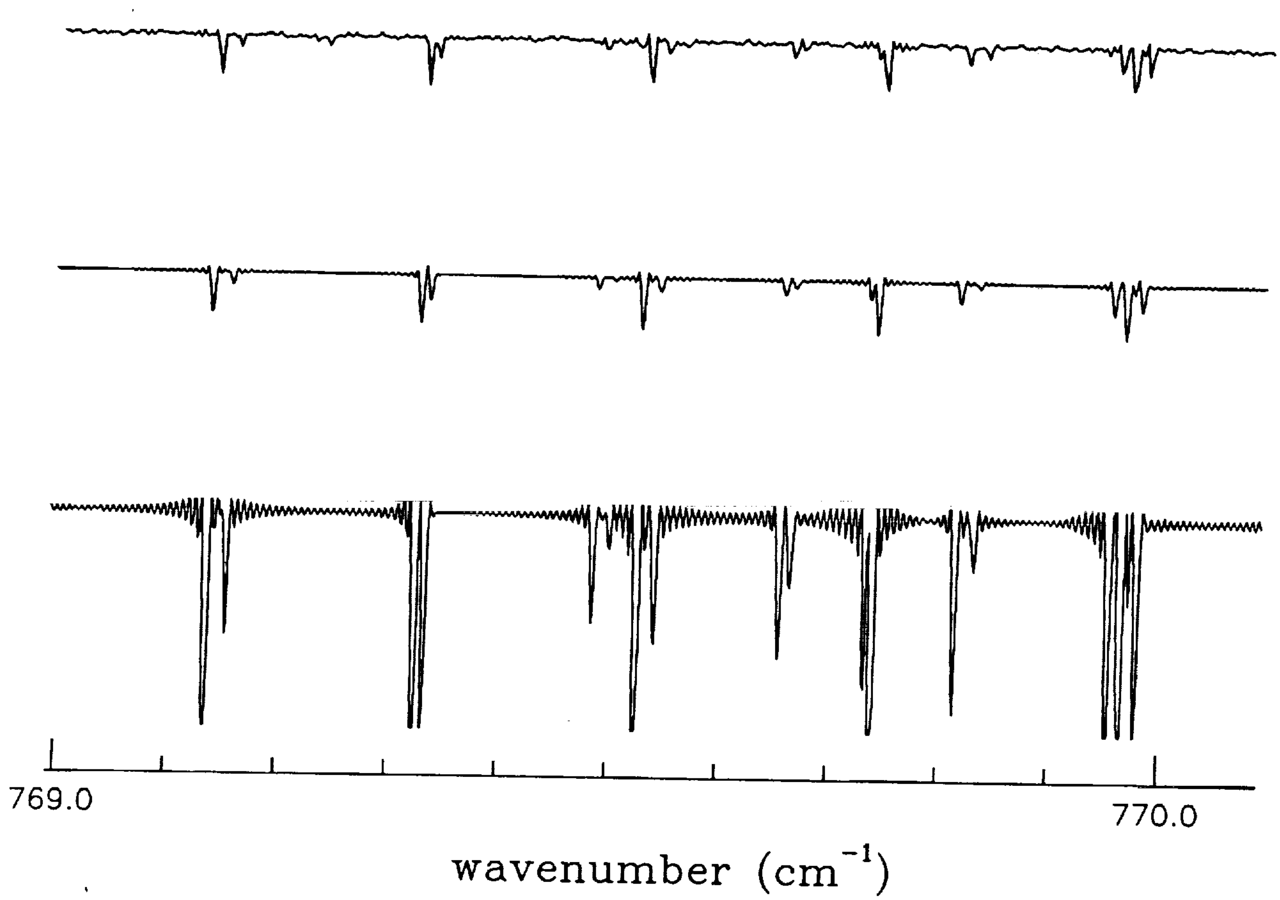
wavenumber (cm⁻¹)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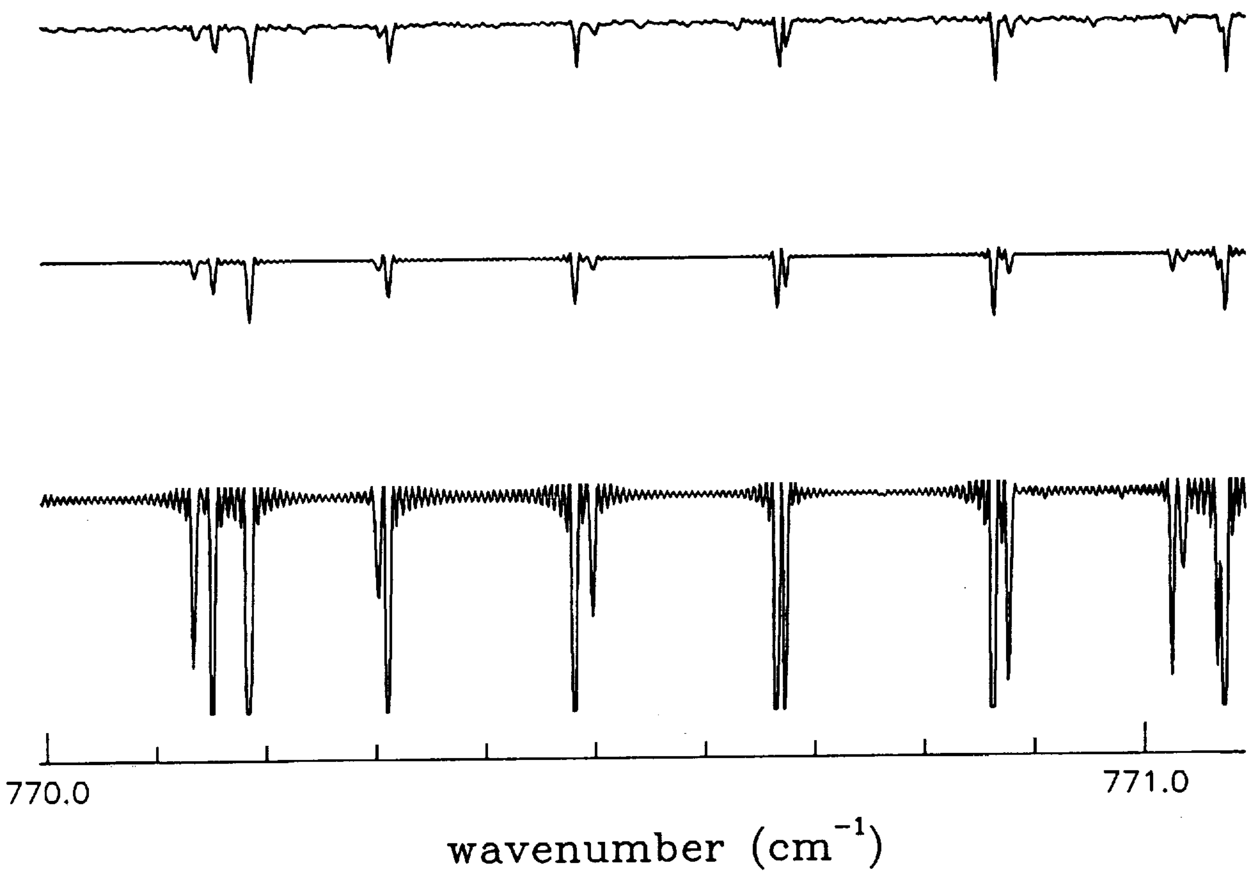
wavenumber (cm⁻¹)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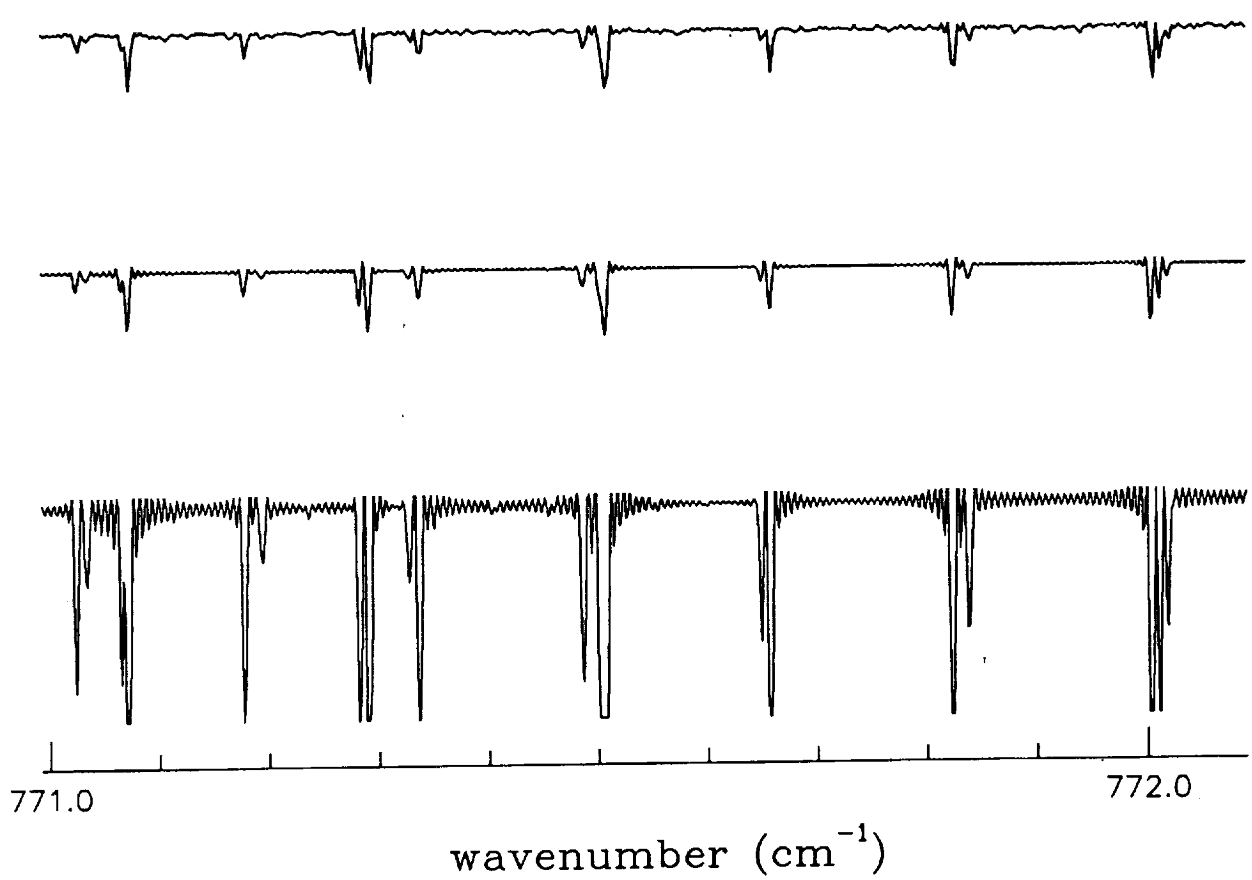
wavenumber (cm^{-1})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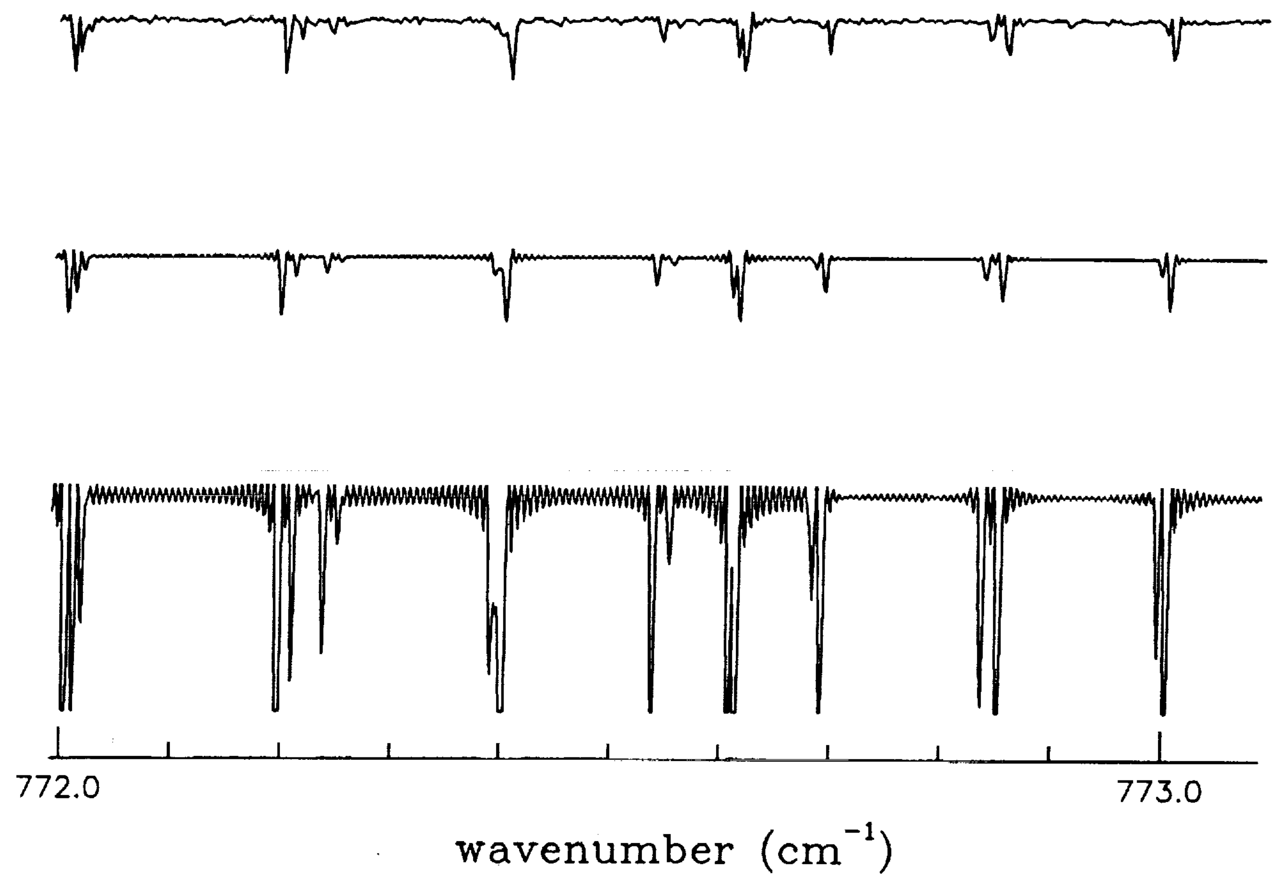
wavenumber (cm^{-1})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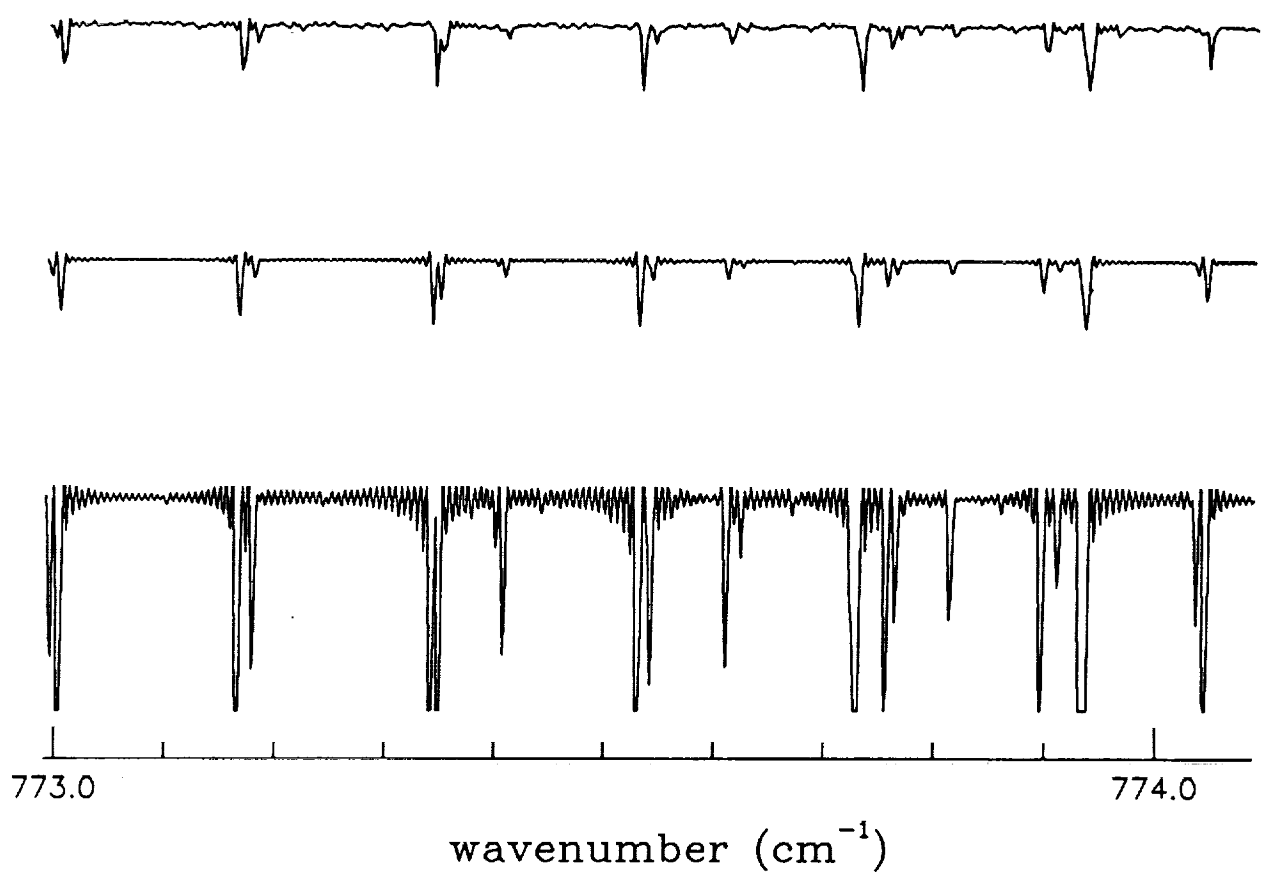
wavenumber (cm⁻¹)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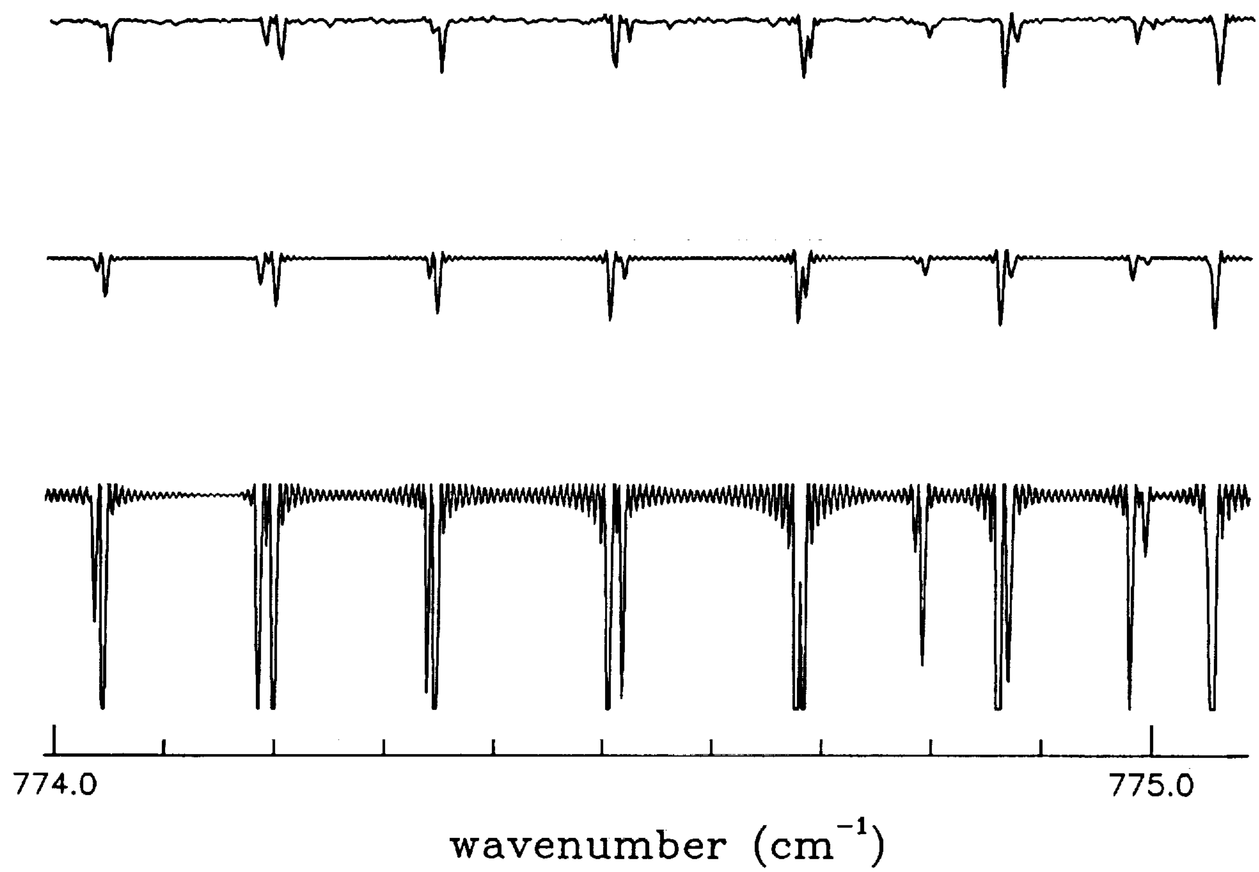
wavenumber (cm⁻¹)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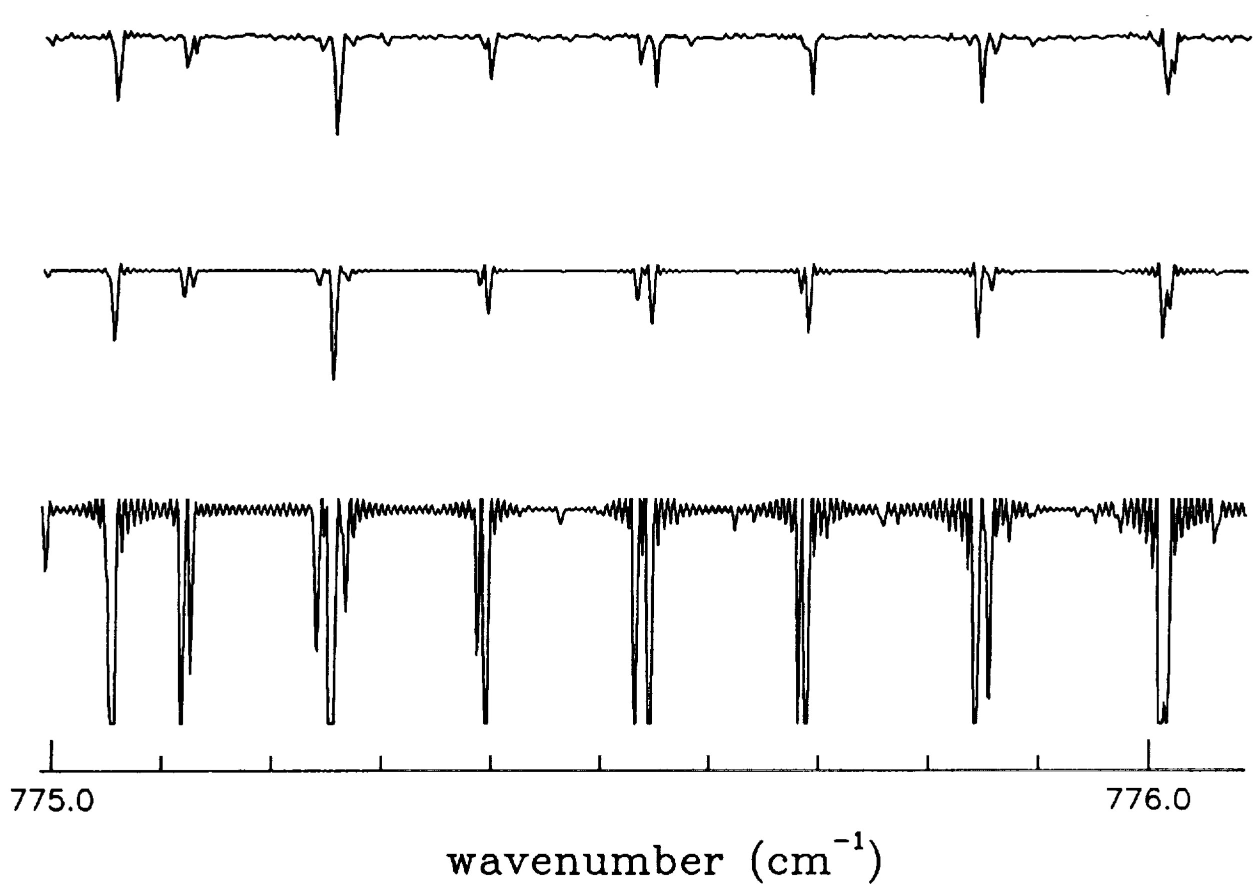
wavenumber (cm^{-1})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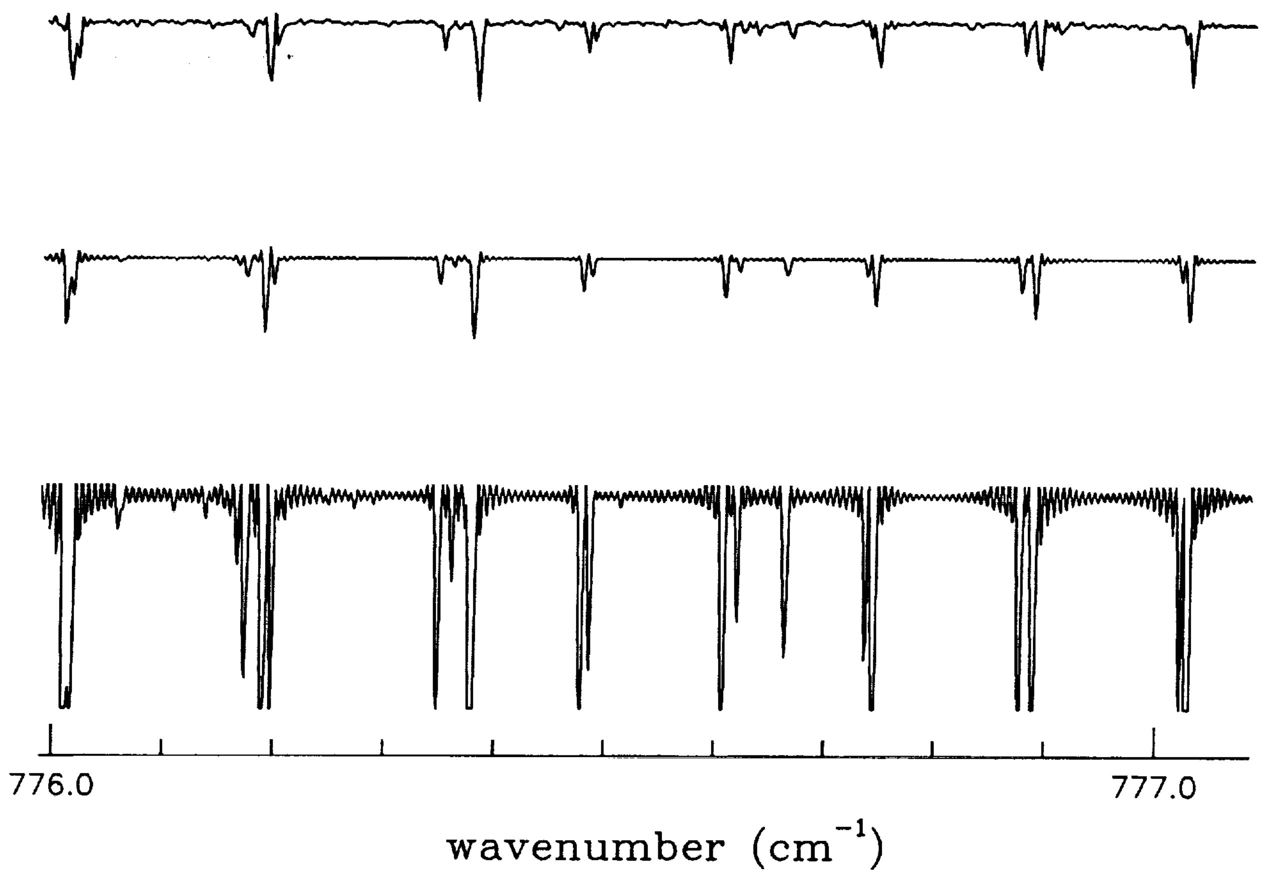
wavenumber (cm^{-1})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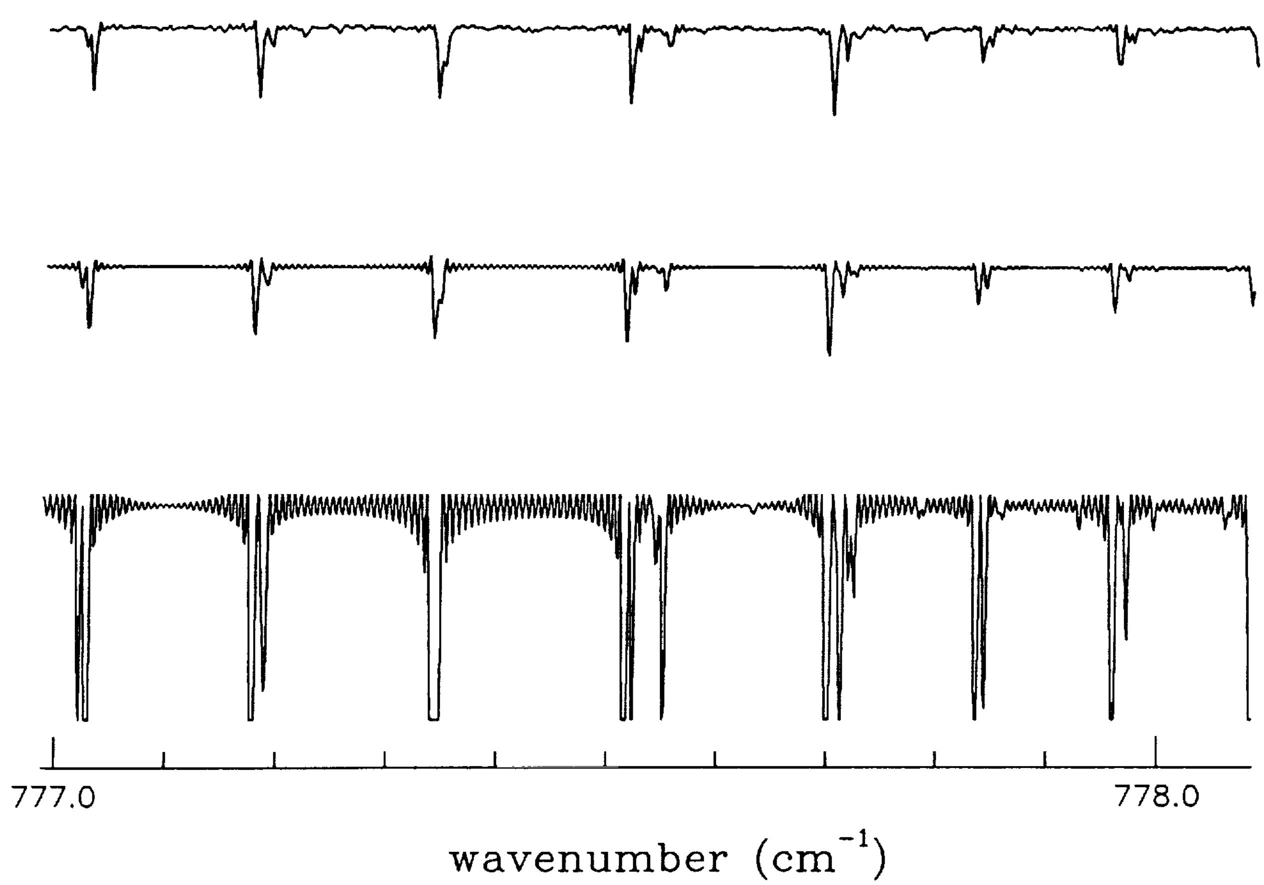
wavenumber (cm⁻¹)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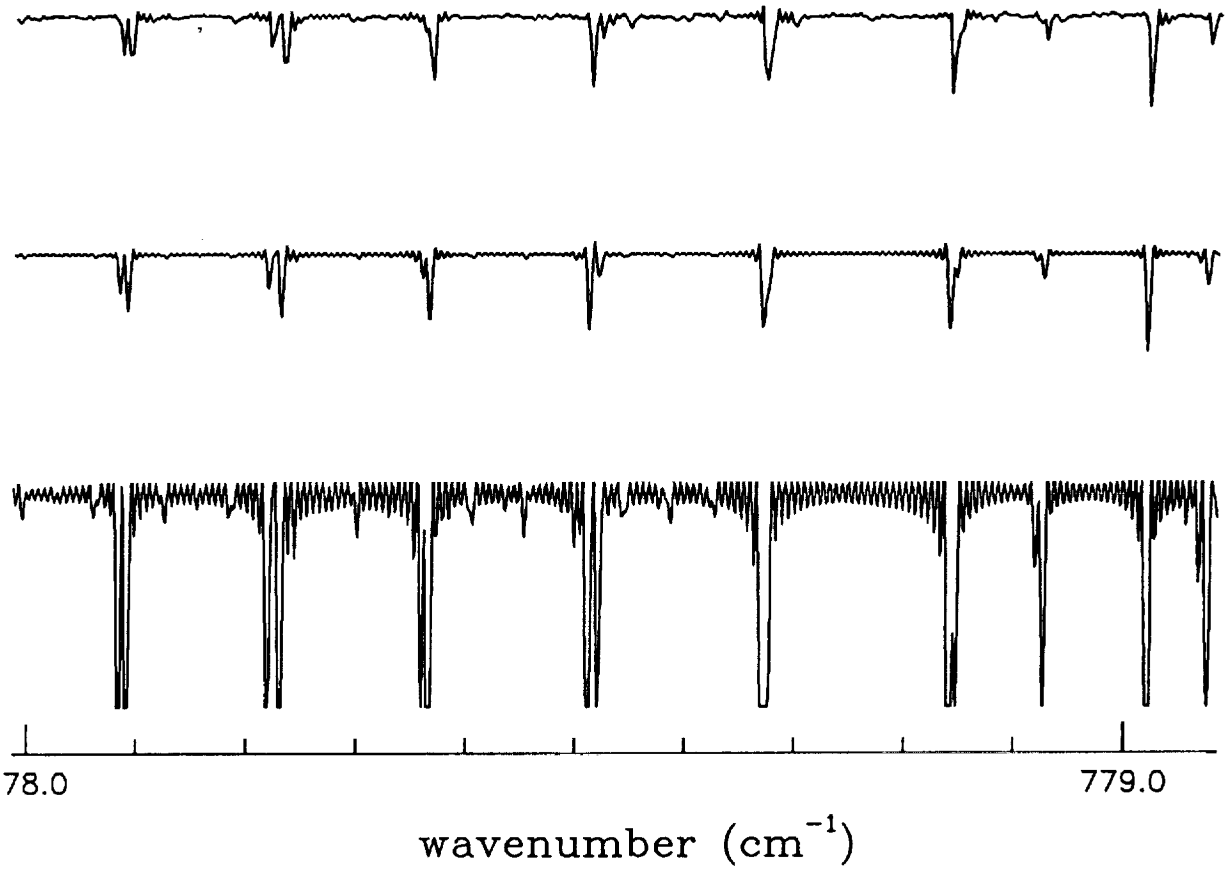
wavenumber (cm⁻¹)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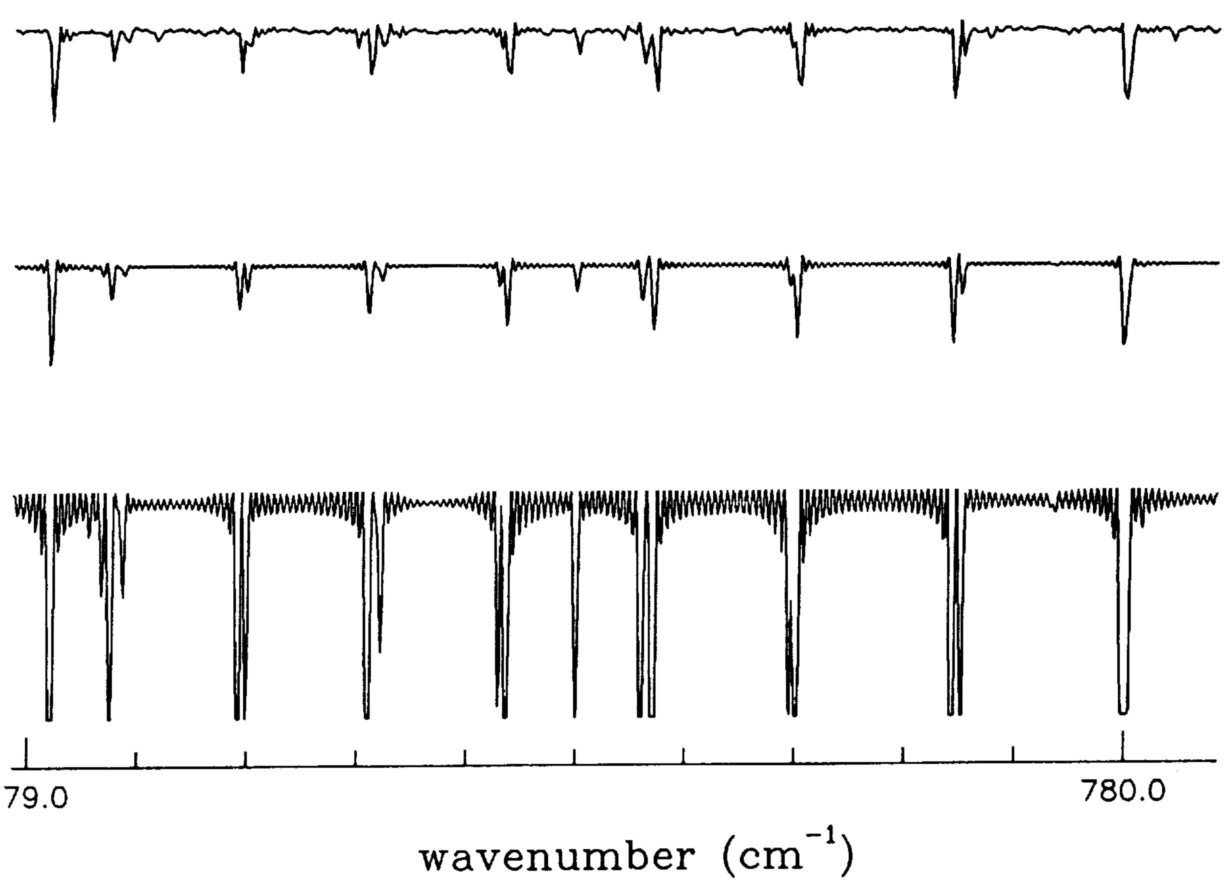
wavenumber (cm⁻¹)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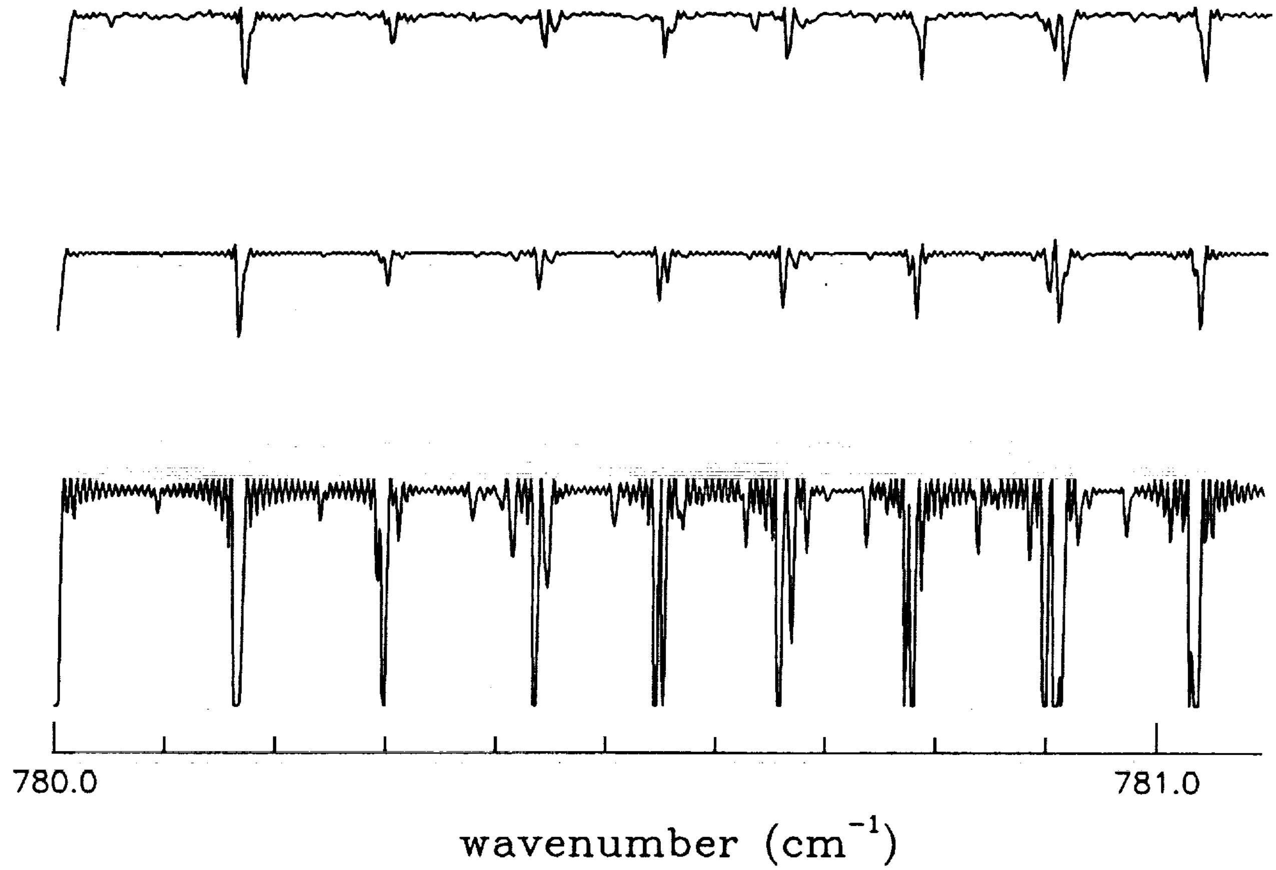
wavenumber (cm⁻¹)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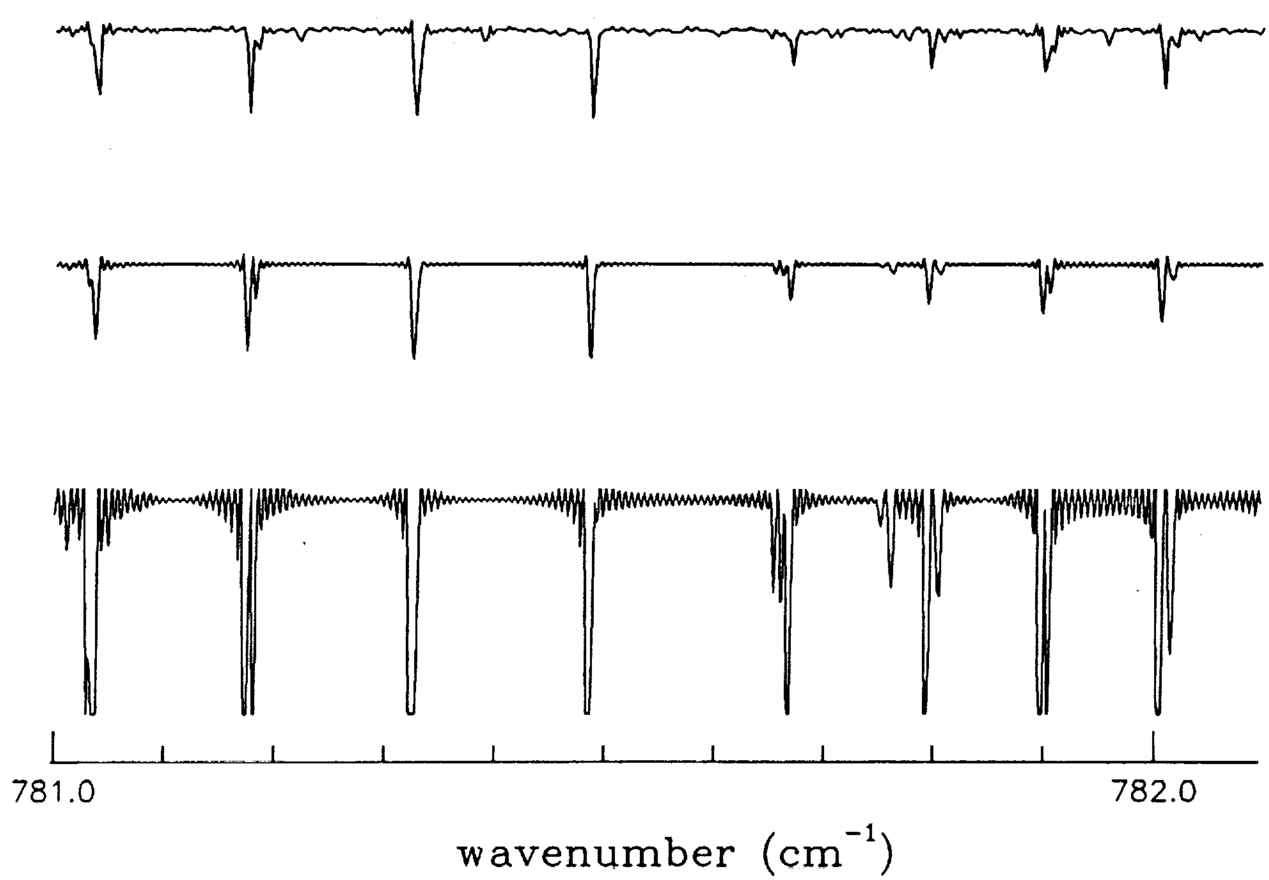
wavenumber (cm⁻¹)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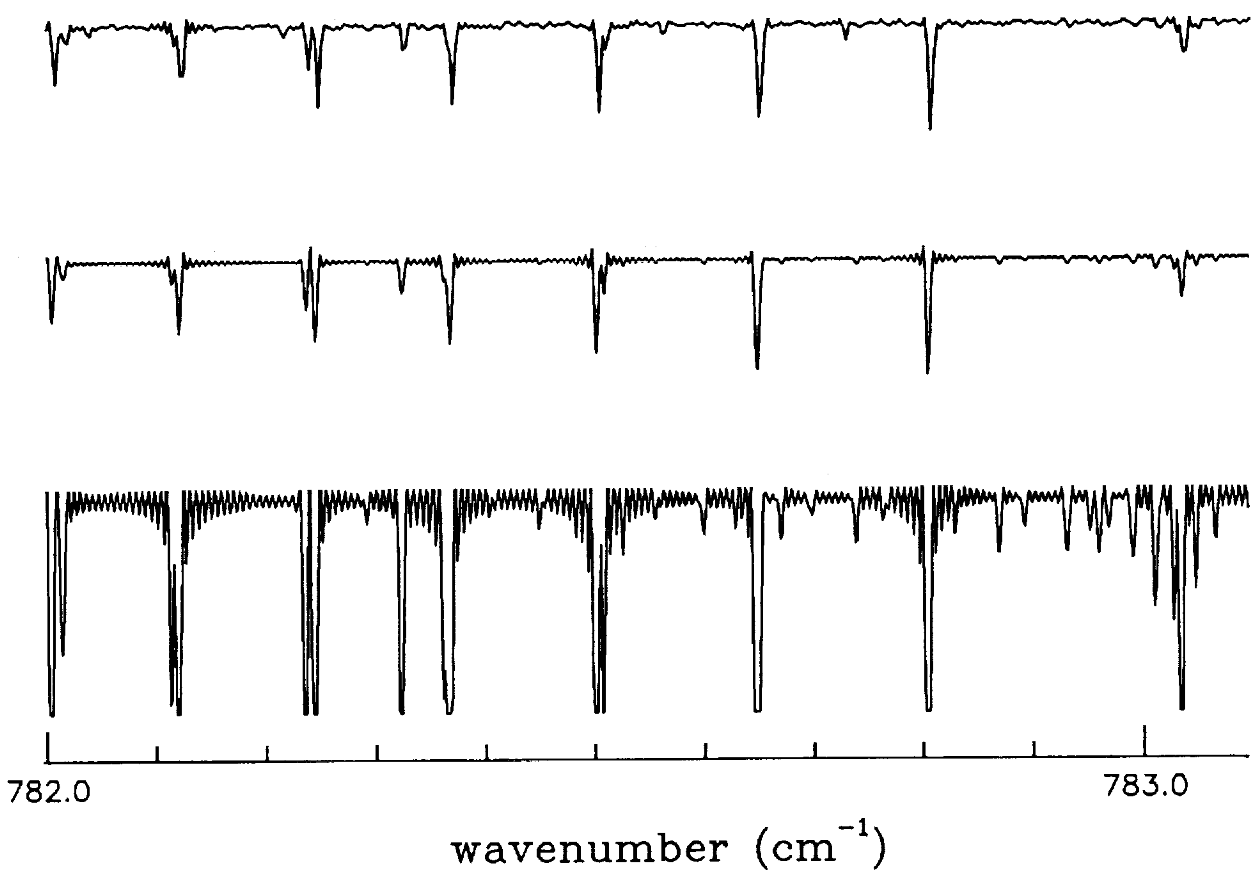
wavenumber (cm⁻¹)



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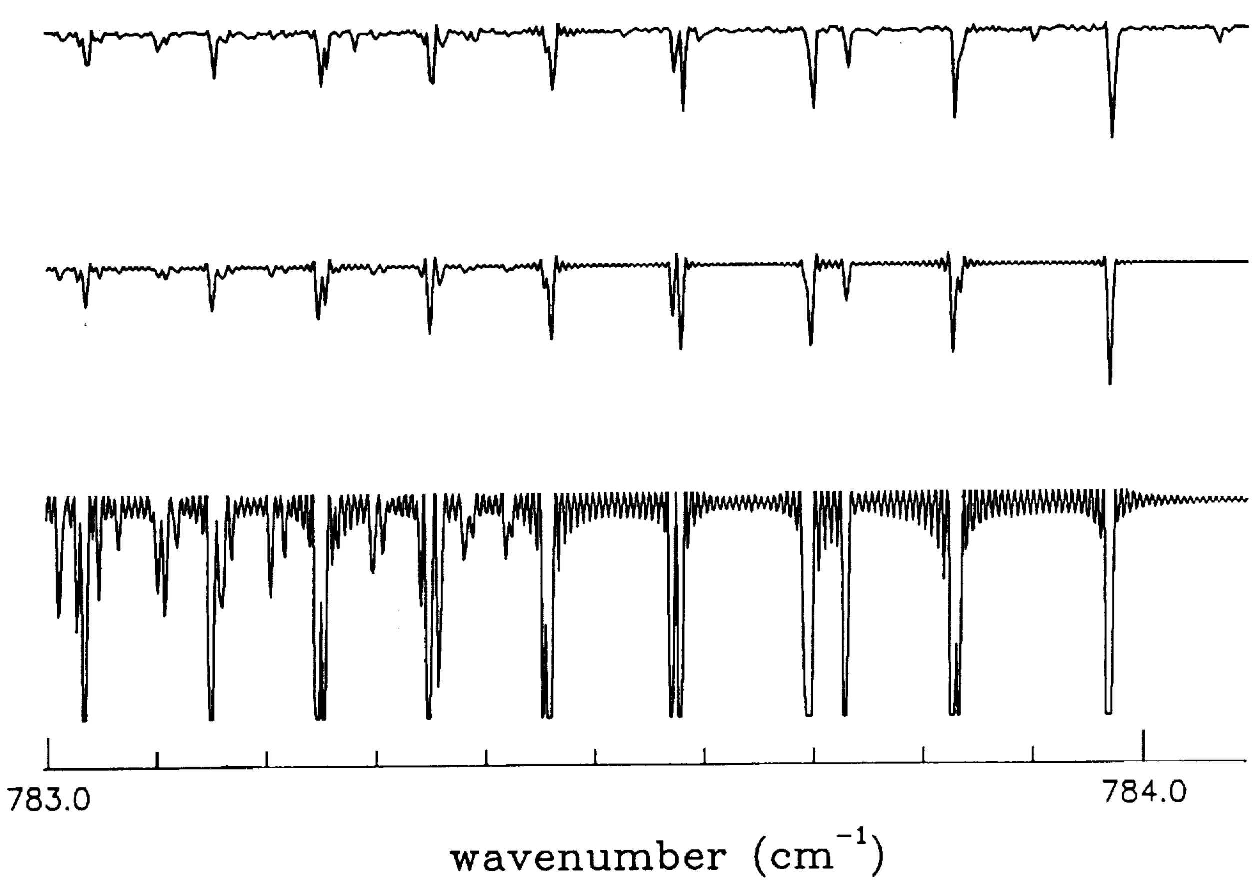
wavenumber (cm^{-1})



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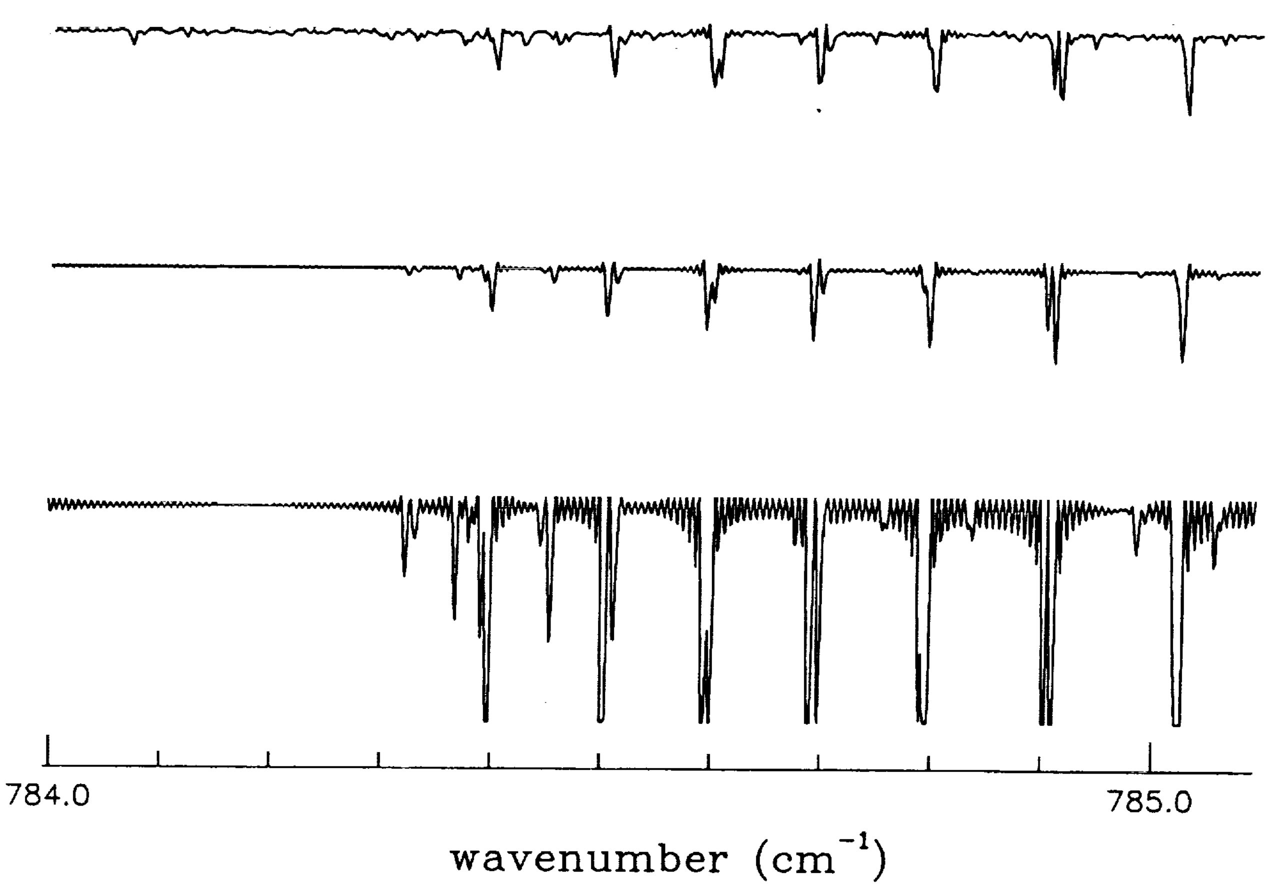
wavenumber (cm^{-1})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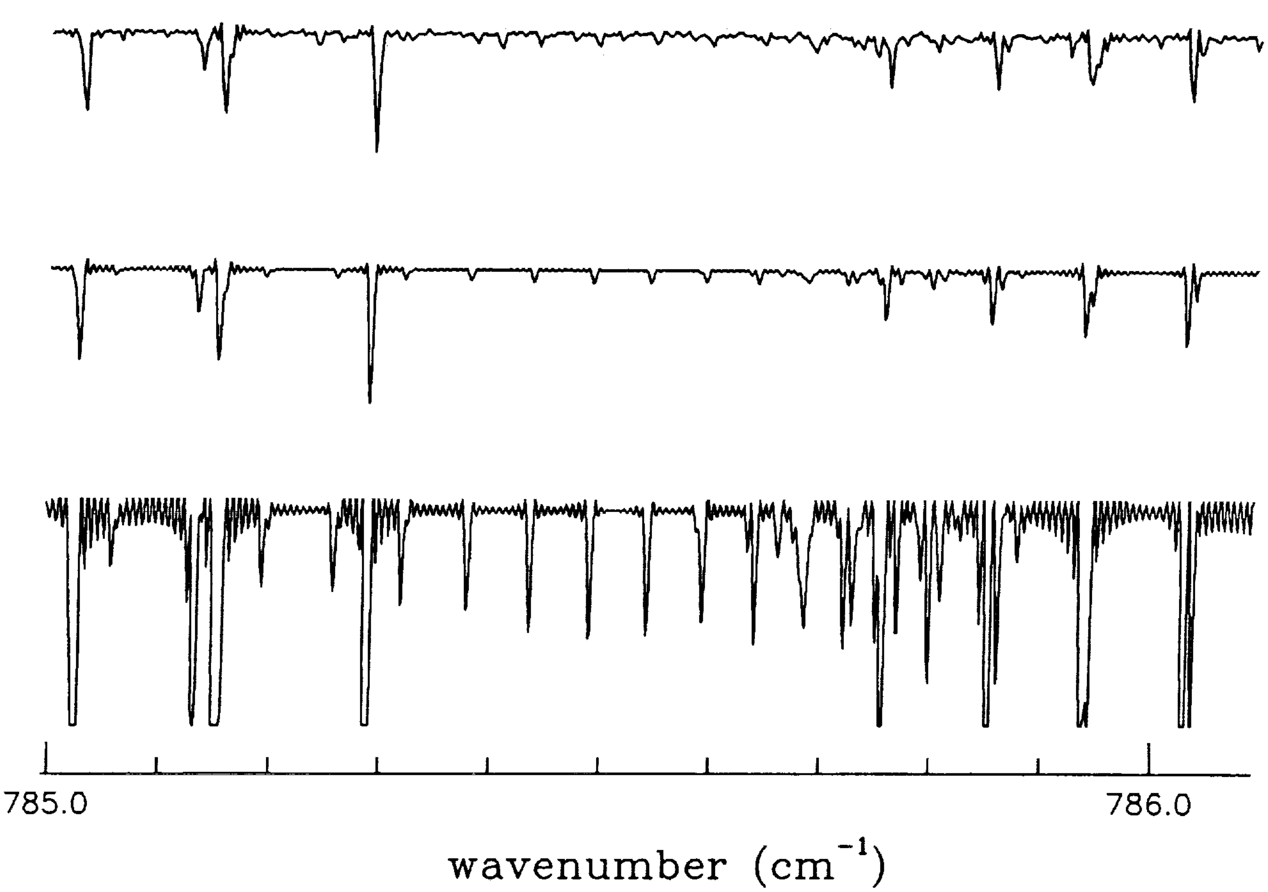
wavenumber (cm⁻¹)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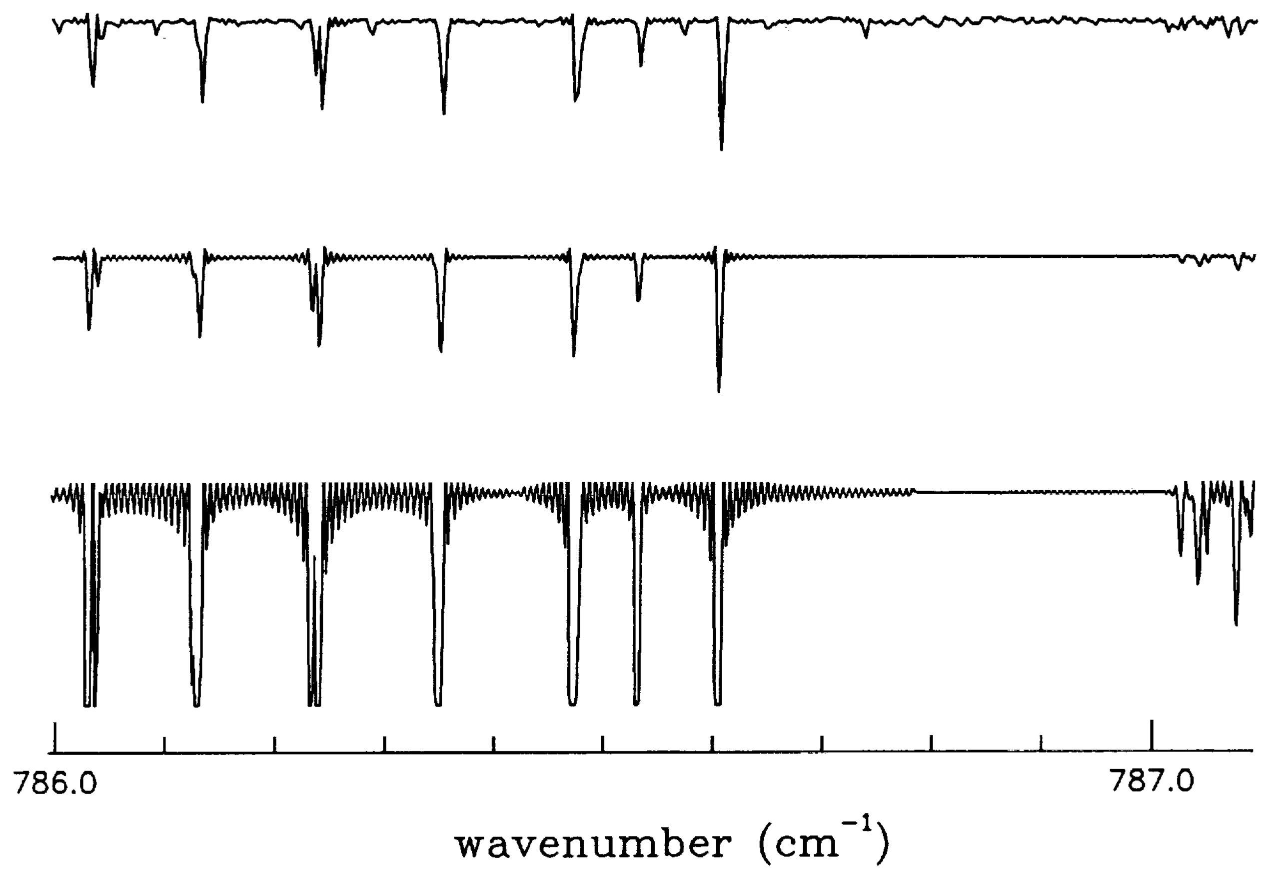
wavenumber (cm⁻¹)



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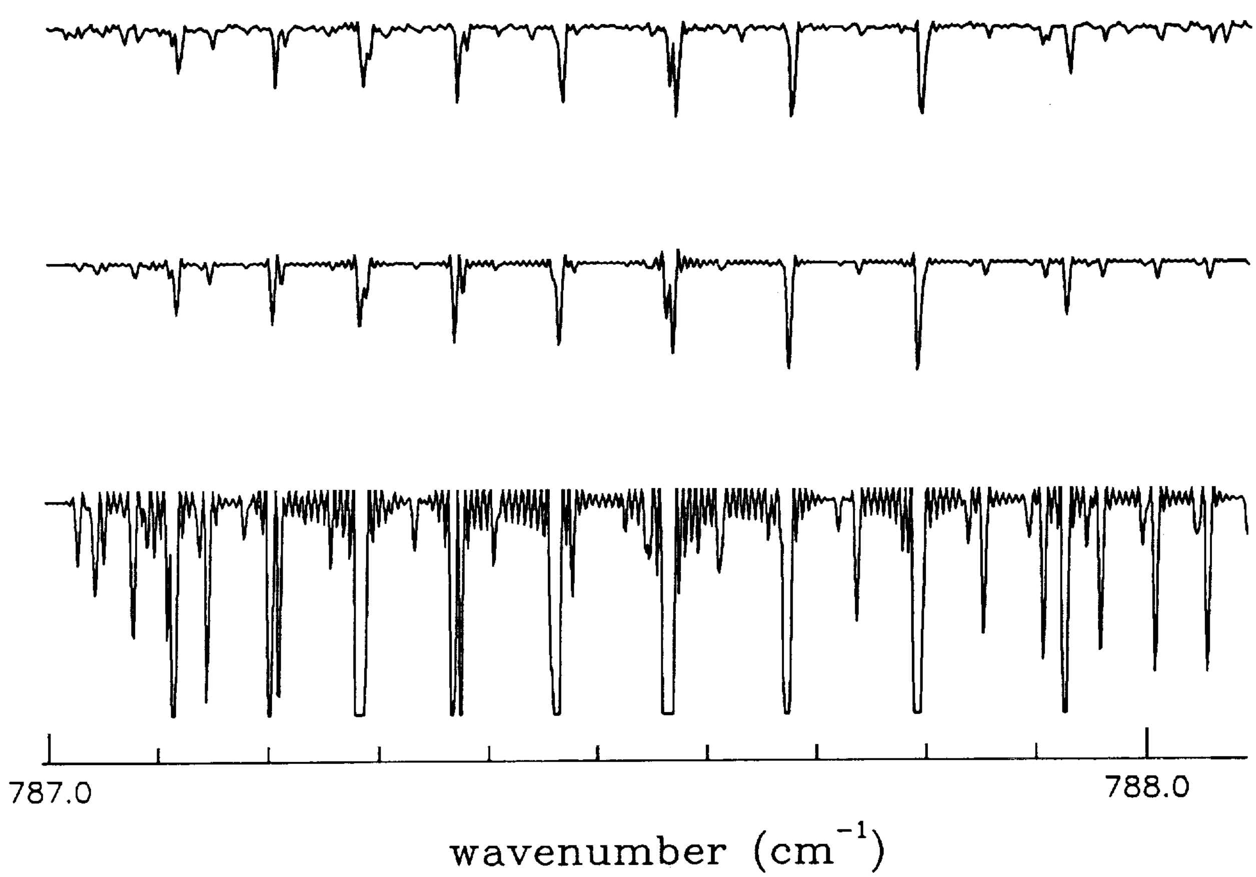
wavenumber (cm^{-1})



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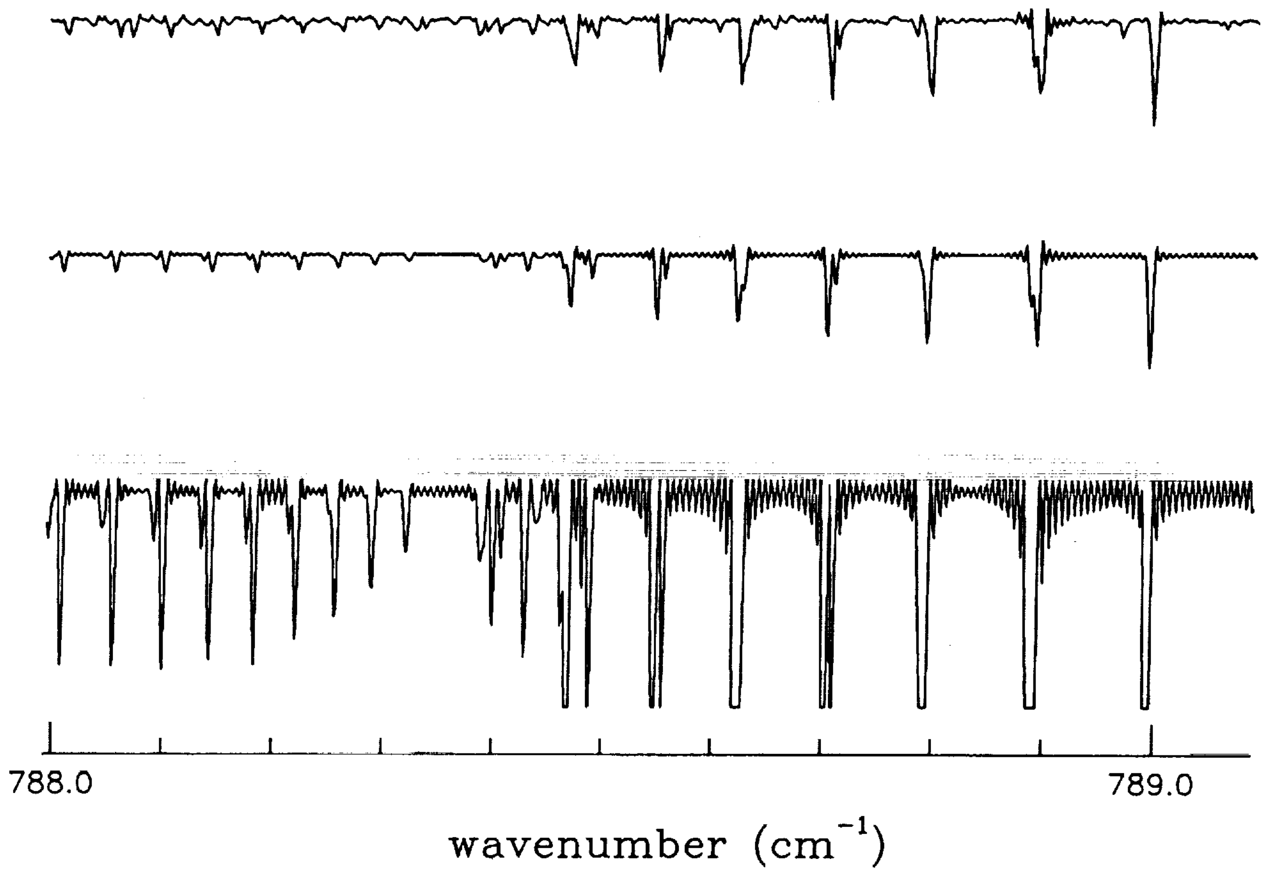
wavenumber (cm^{-1})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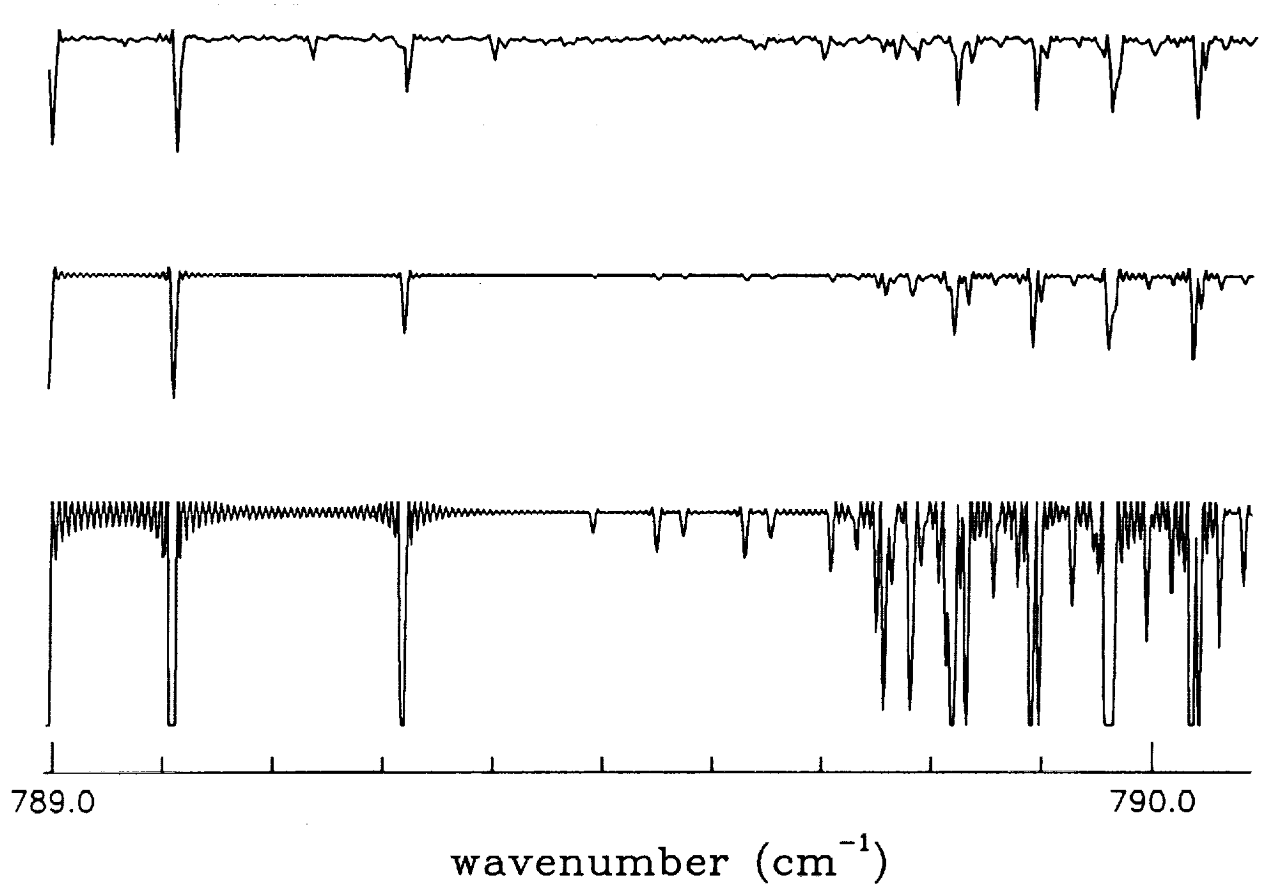
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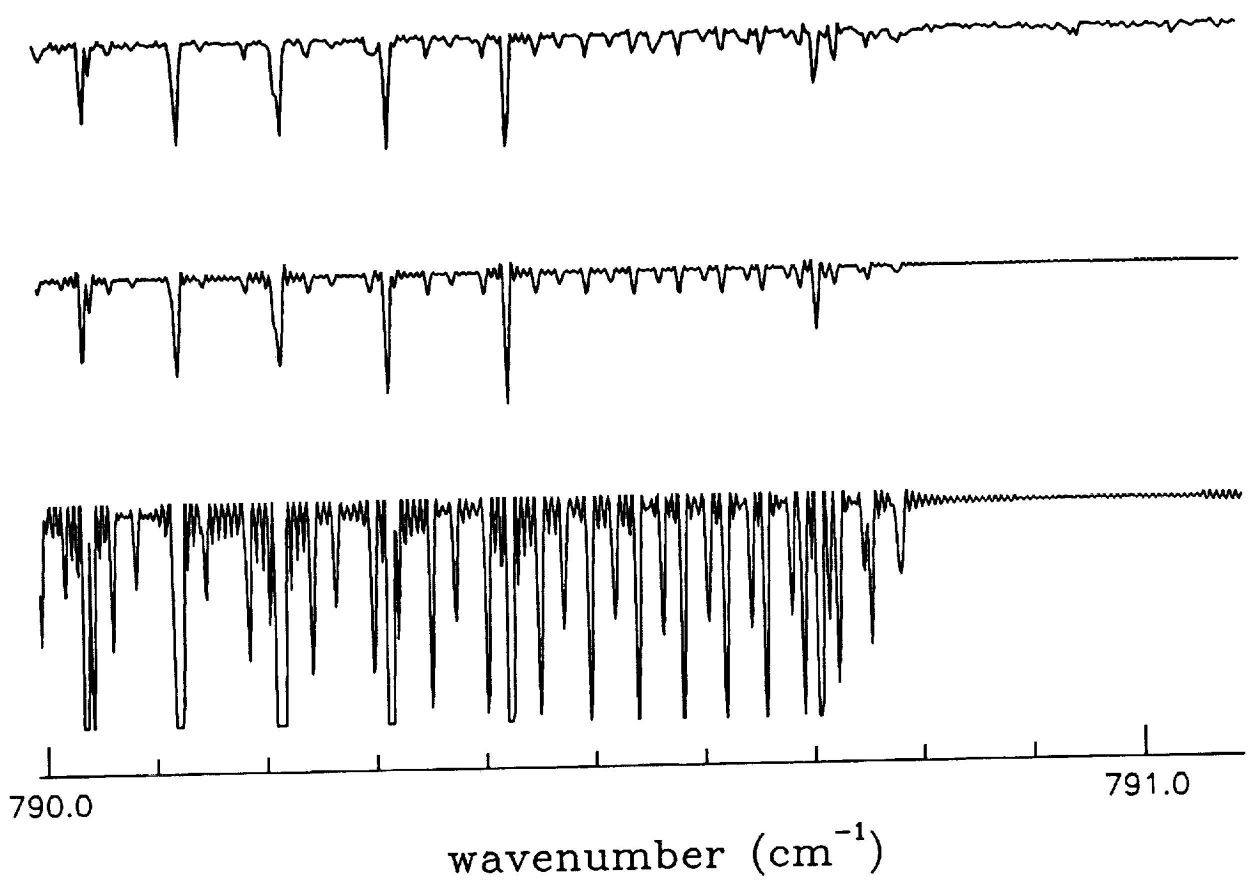
wavenumber (cm-1)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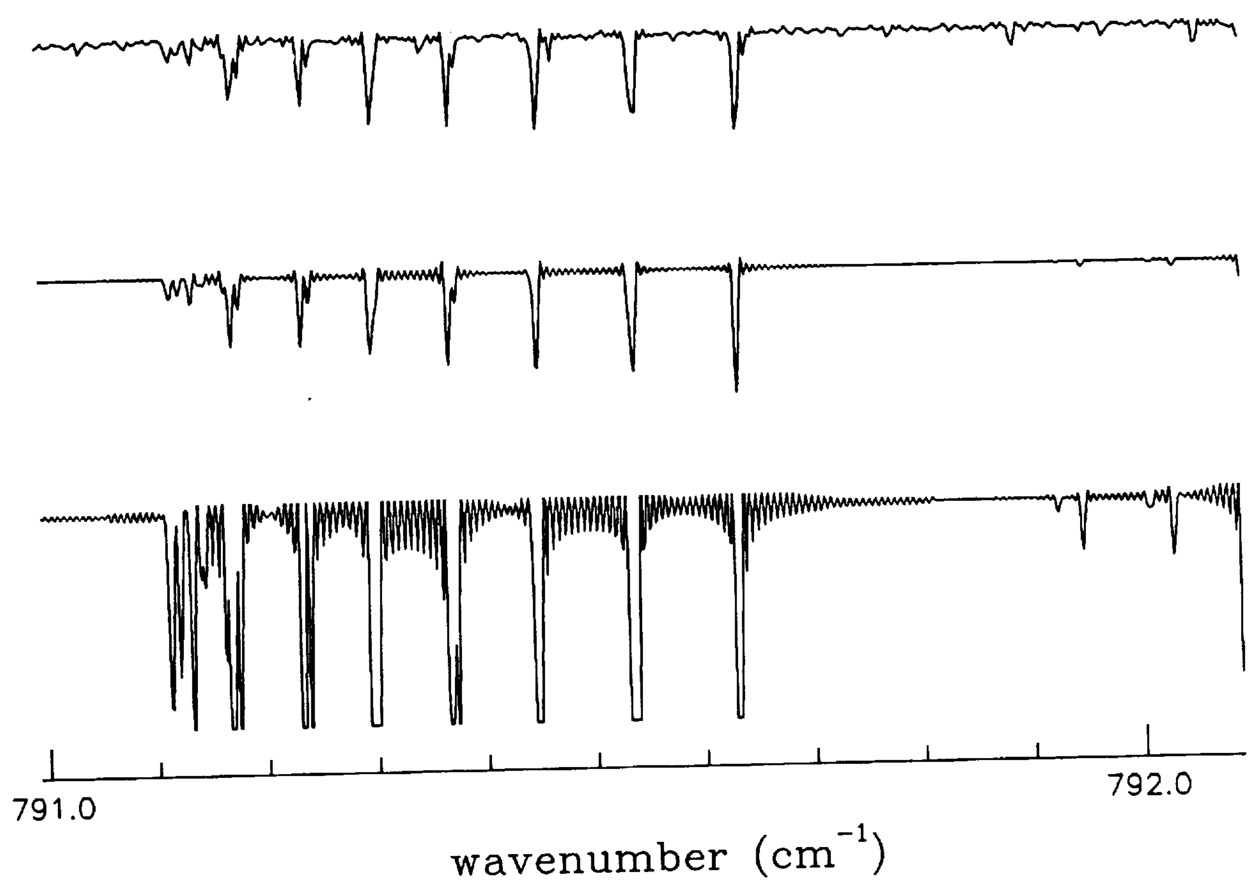
wavenumber (cm⁻¹)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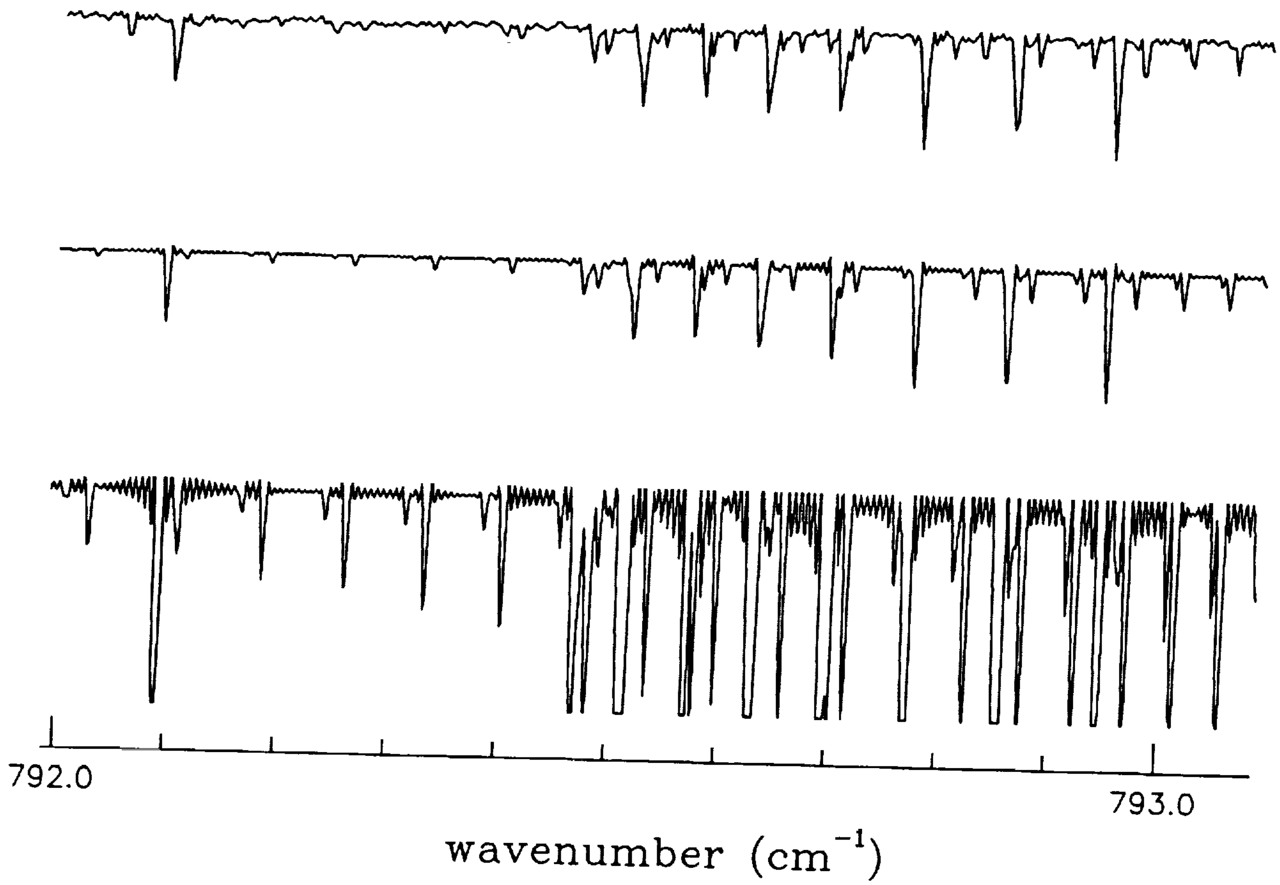
wavenumber (cm⁻¹)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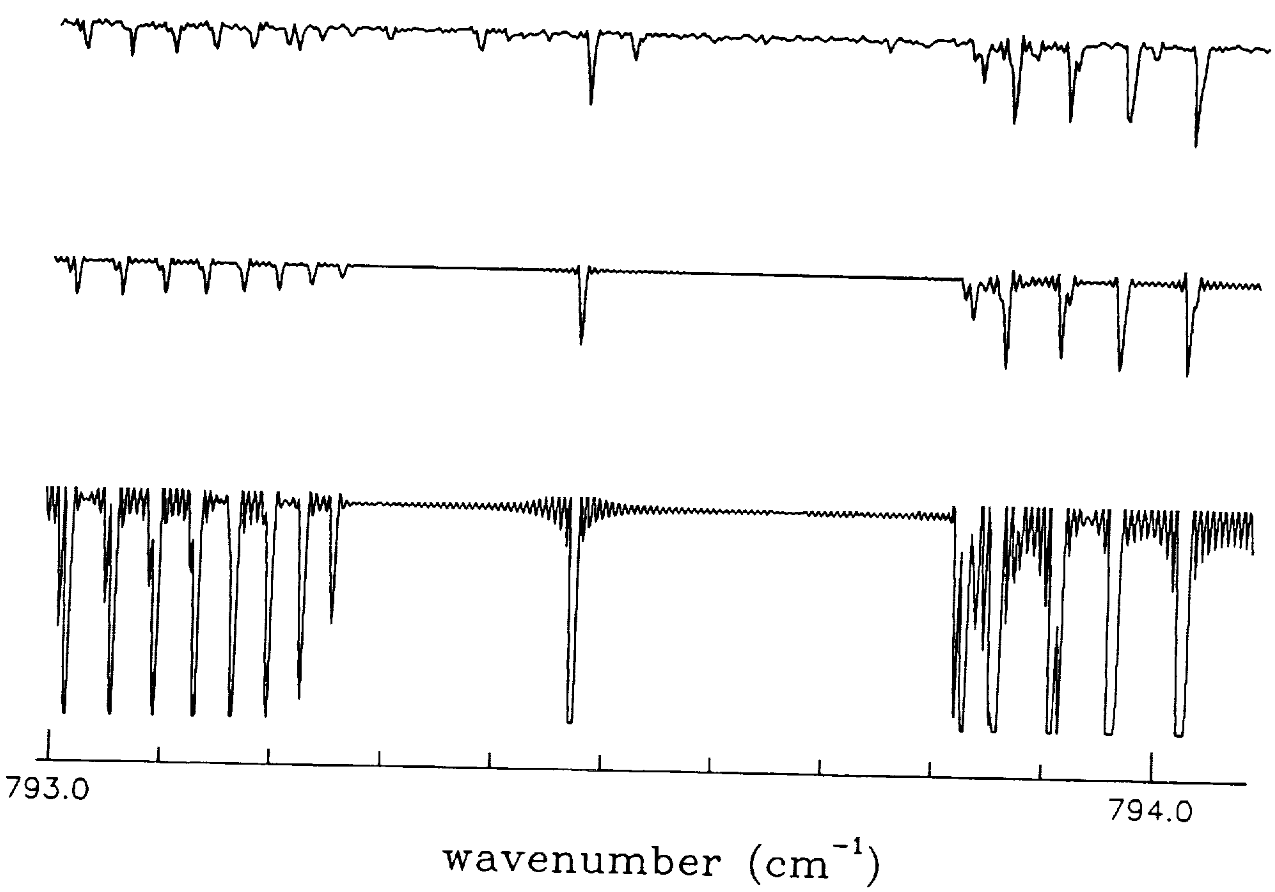
wavenumber (cm⁻¹)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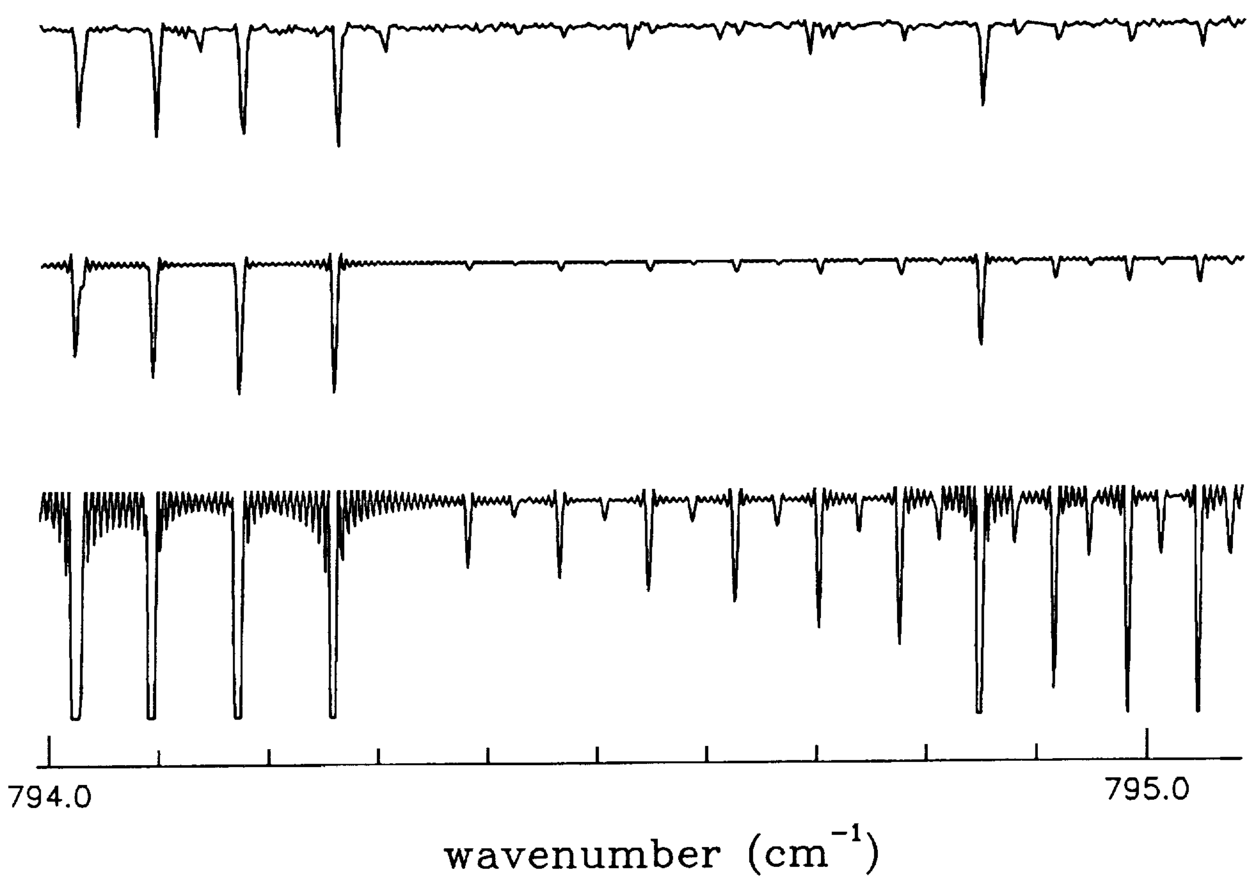
wavenumber (cm⁻¹)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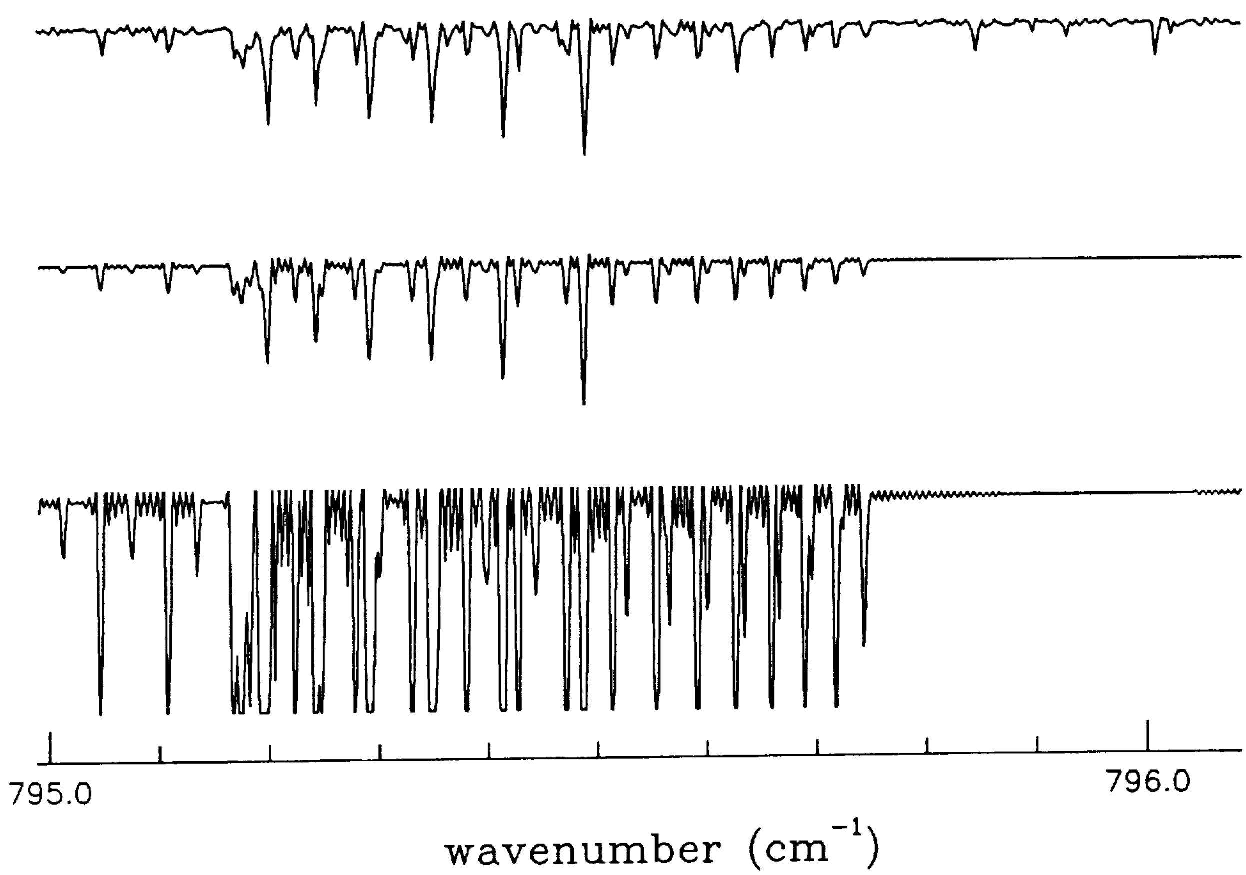
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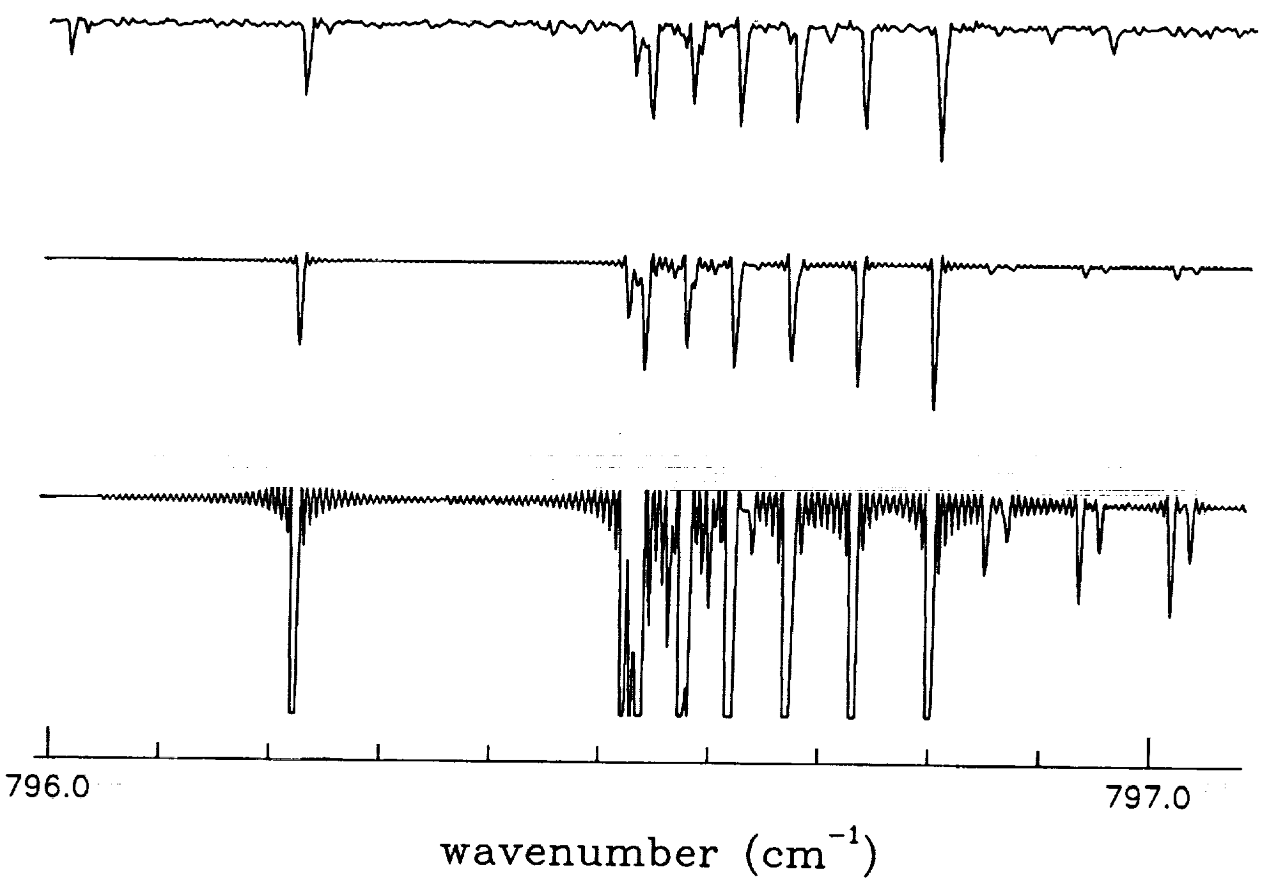
wavenumber (cm⁻¹)



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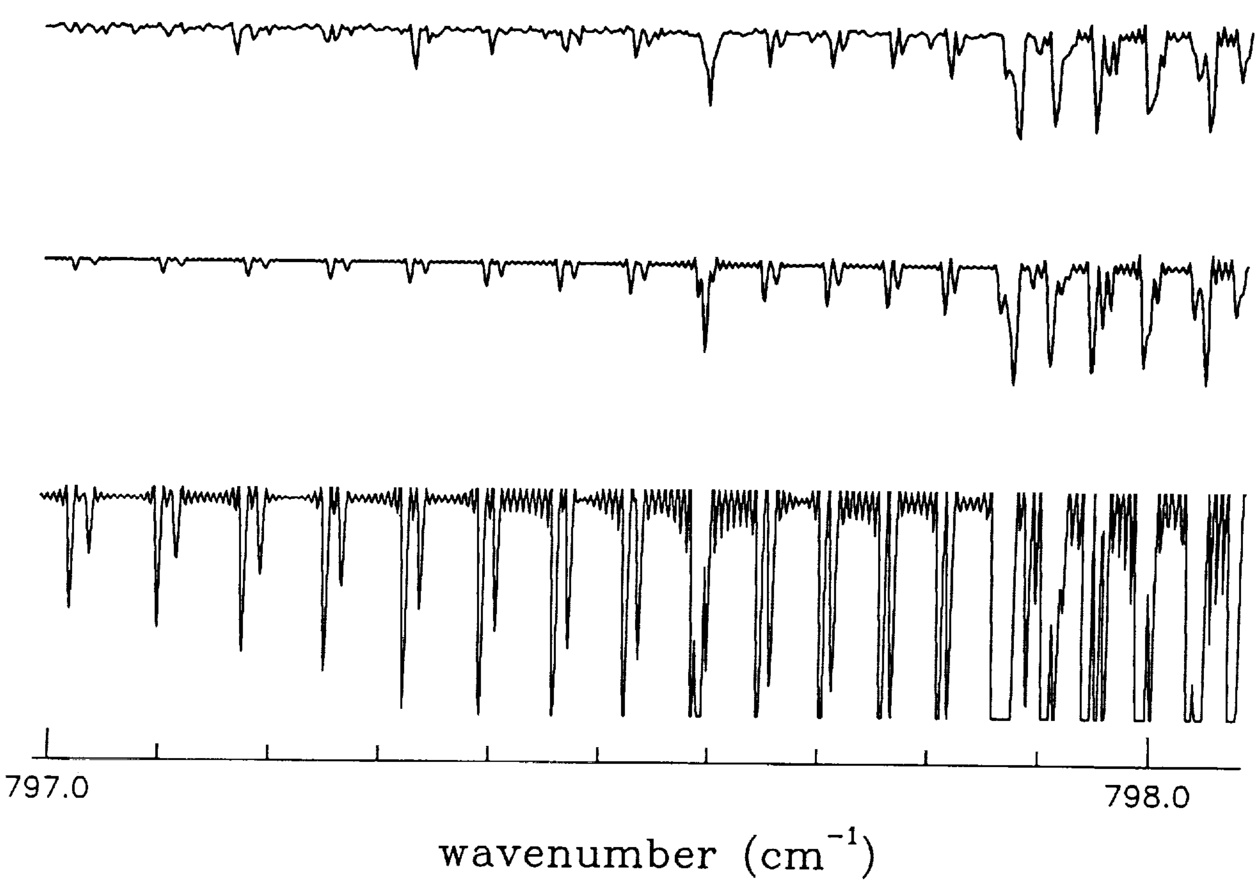
wavenumber (cm⁻¹)



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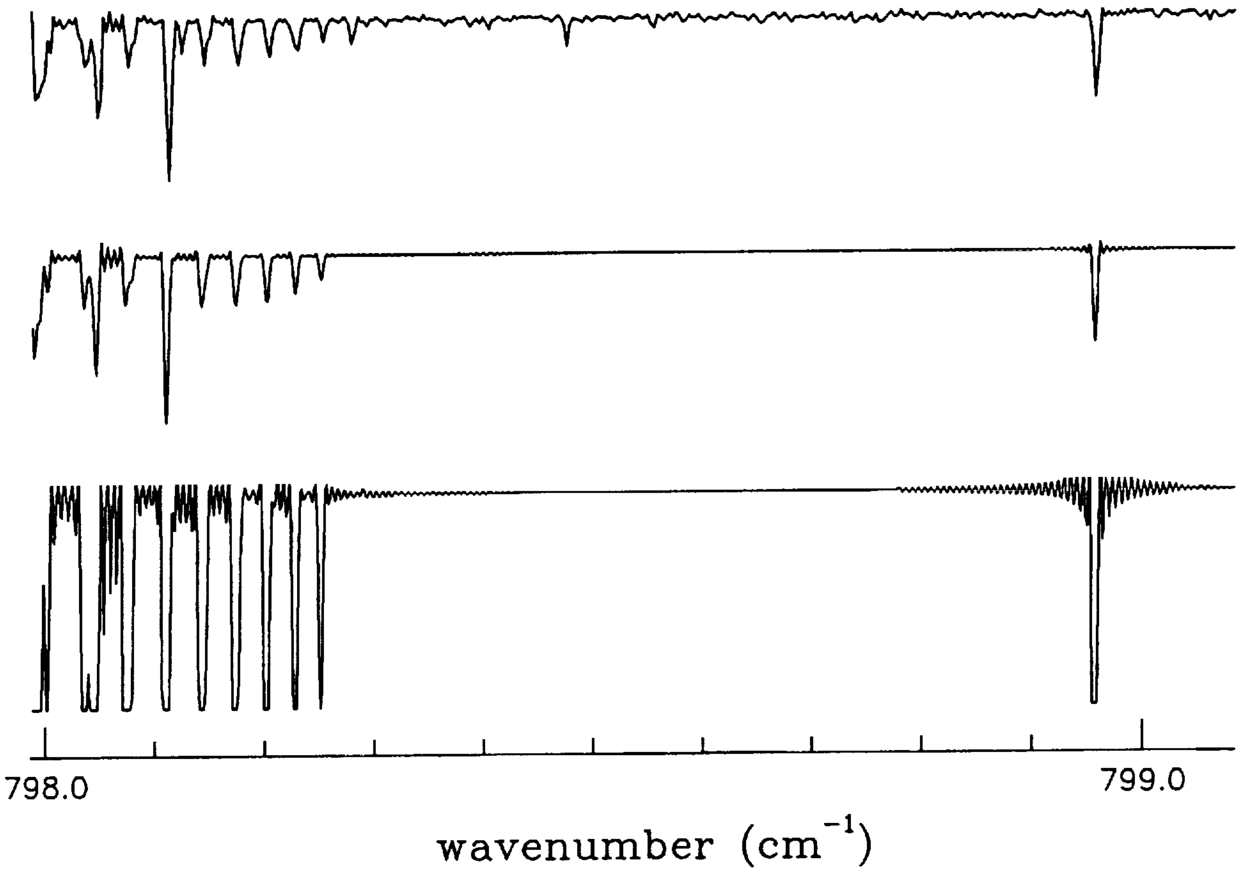
wavenumber (cm⁻¹)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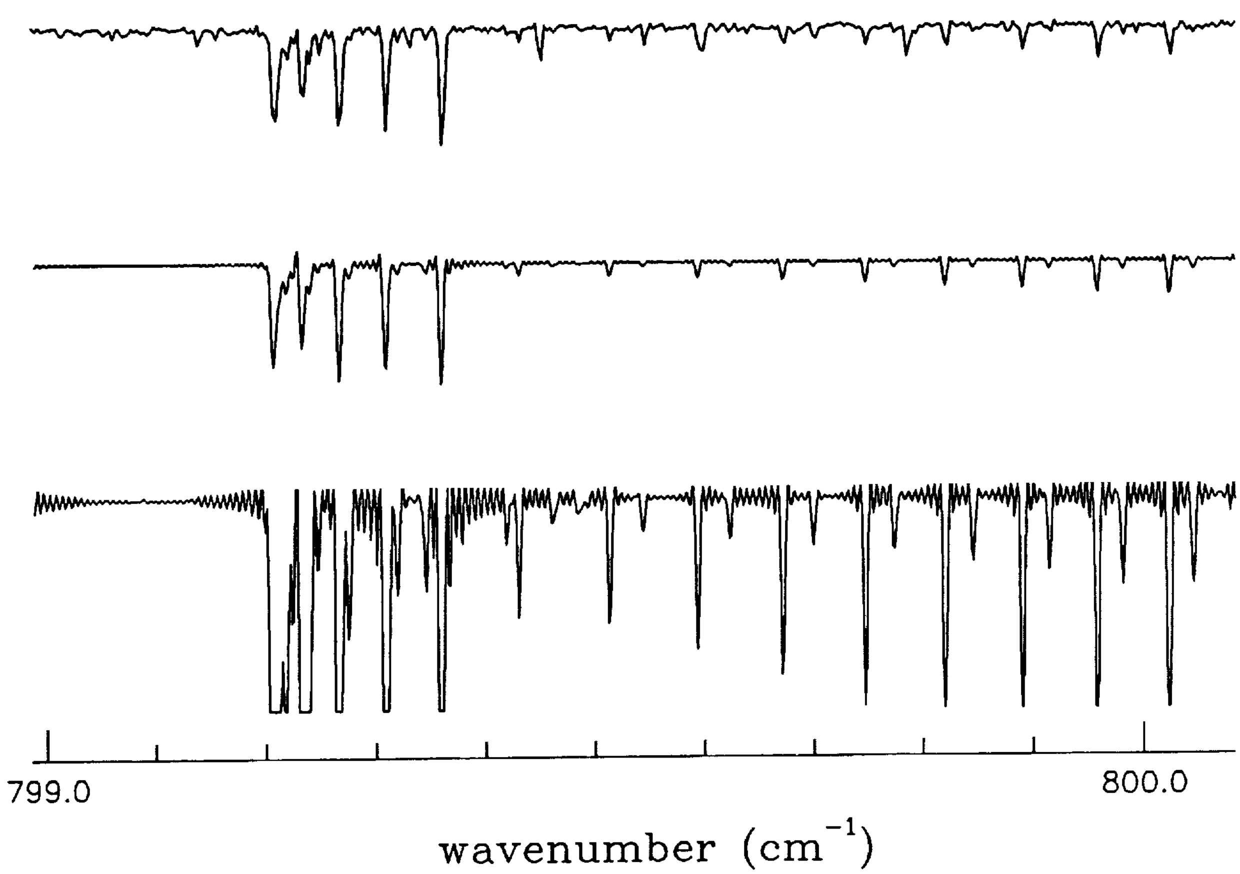
wavenumber (cm⁻¹)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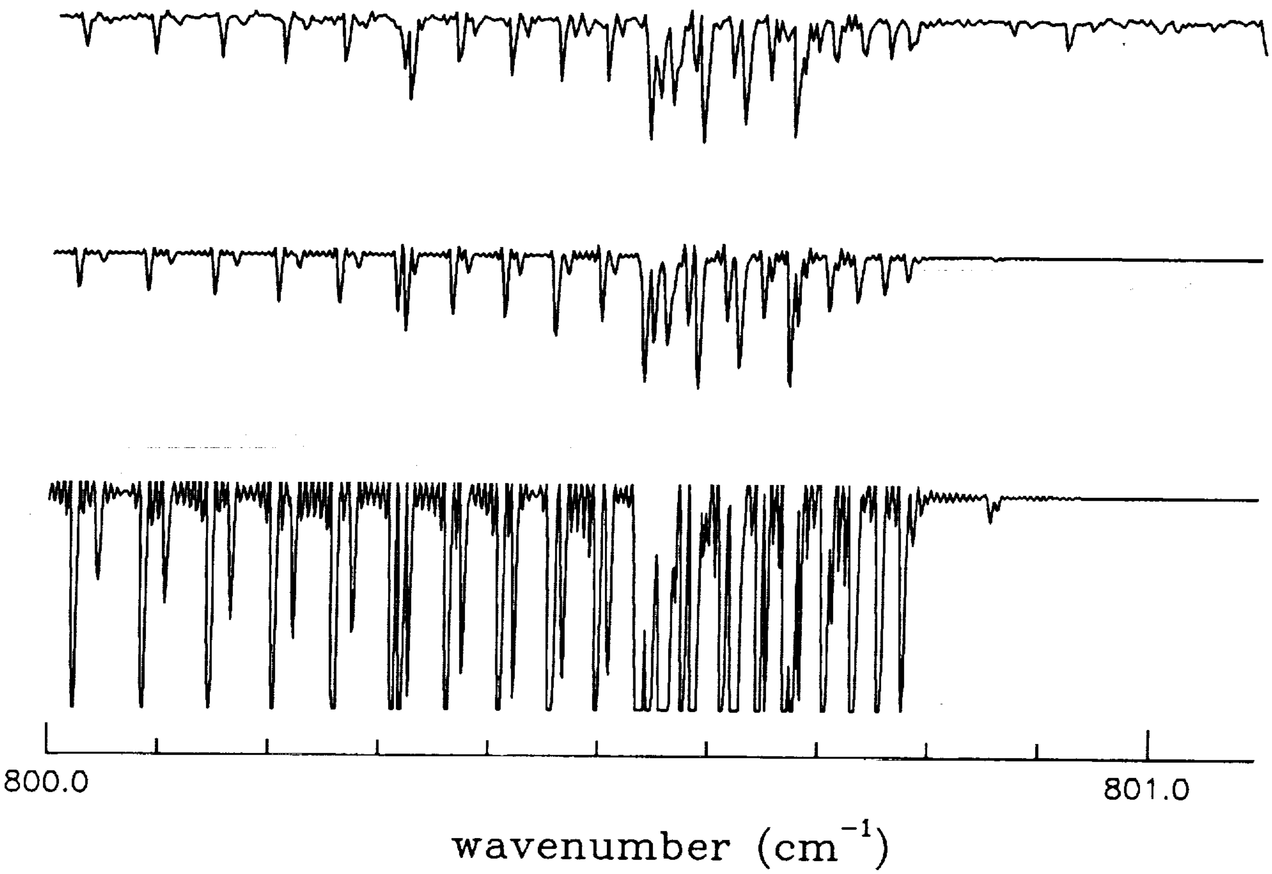

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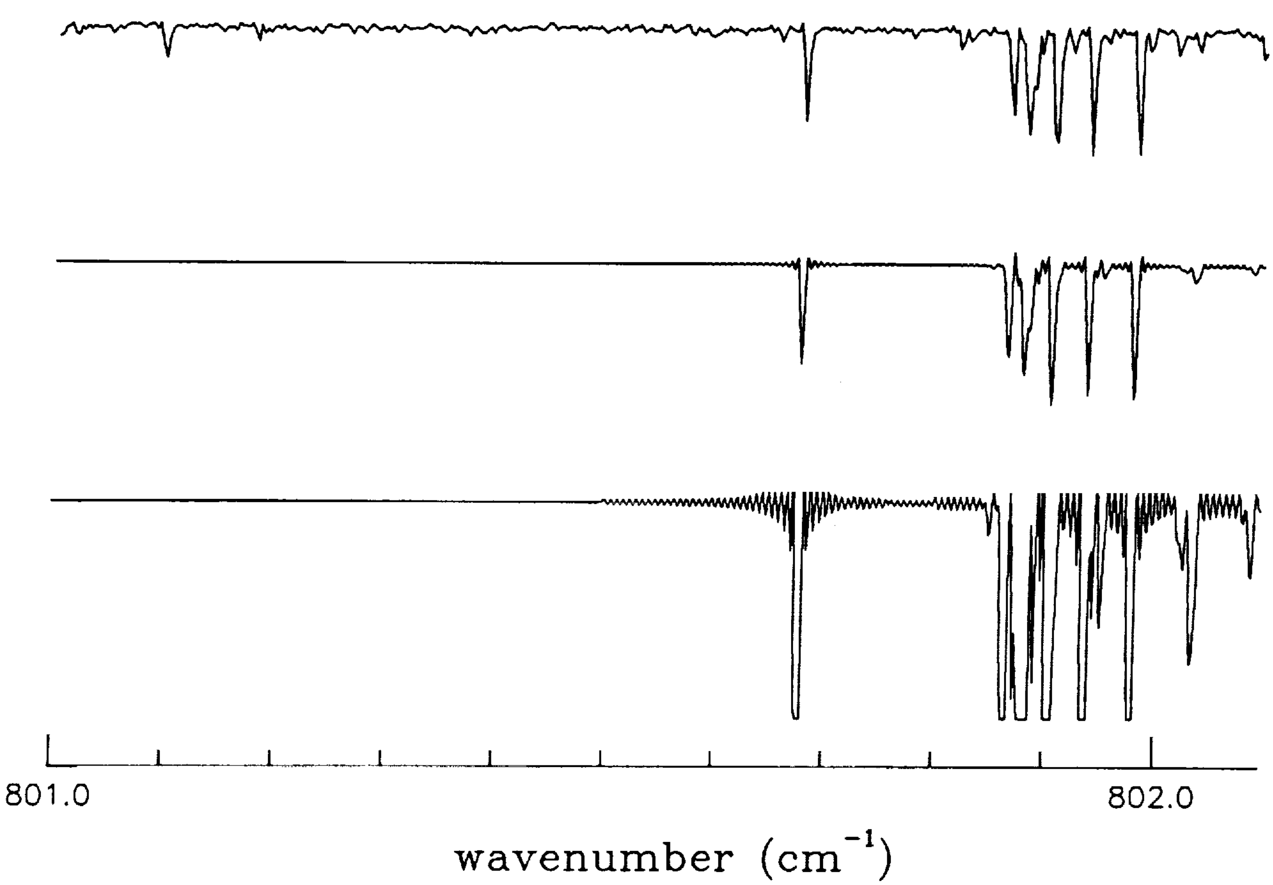
wavenumber (cm⁻¹)



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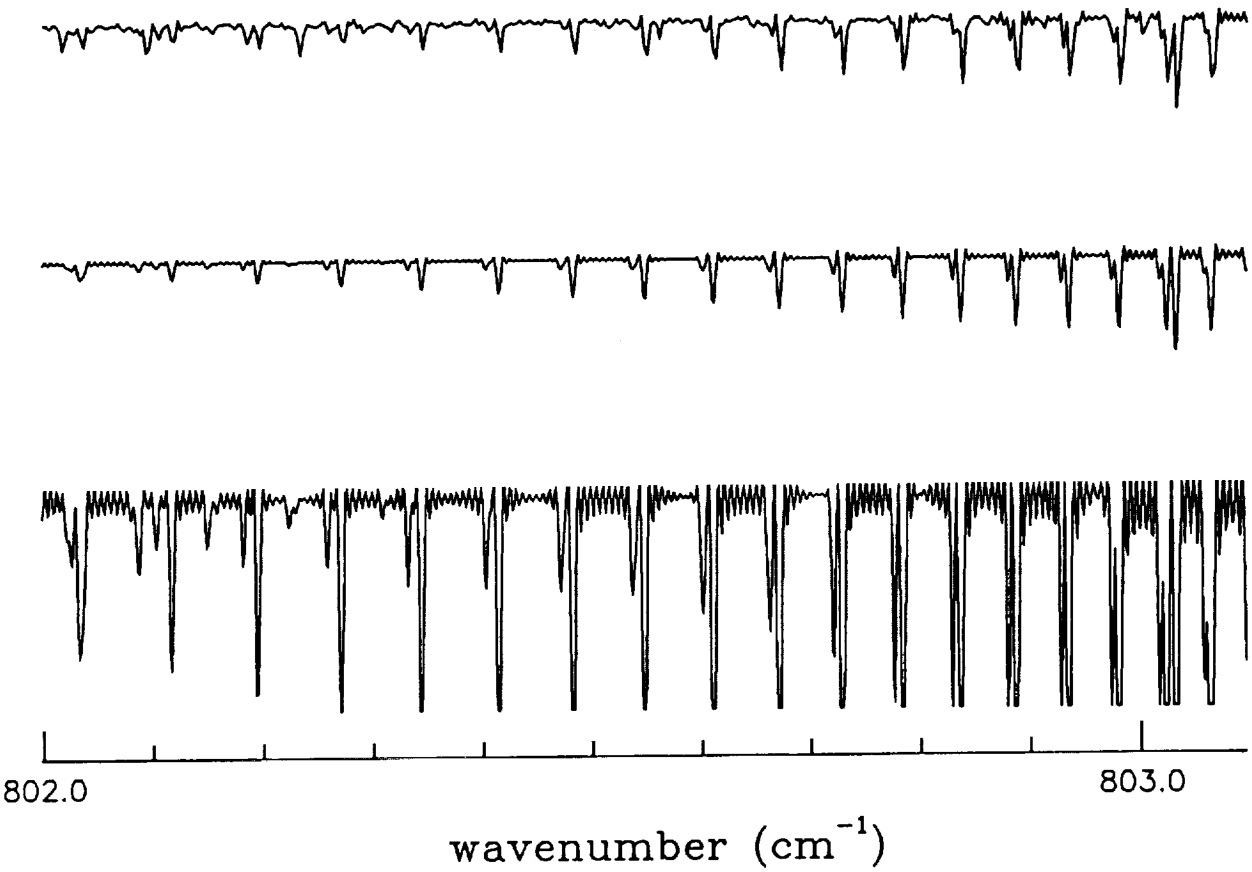
wavenumber (cm⁻¹)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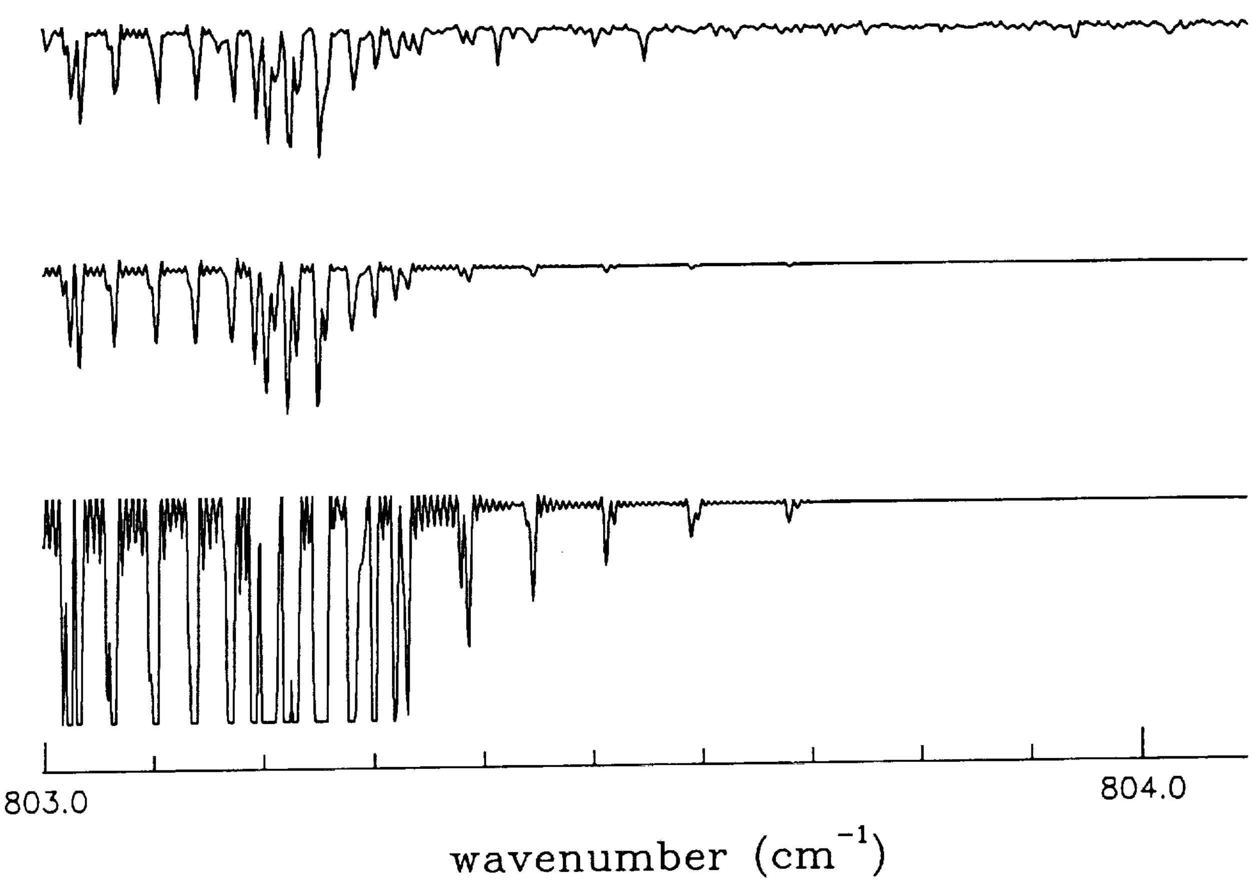
wavenumber (cm⁻¹)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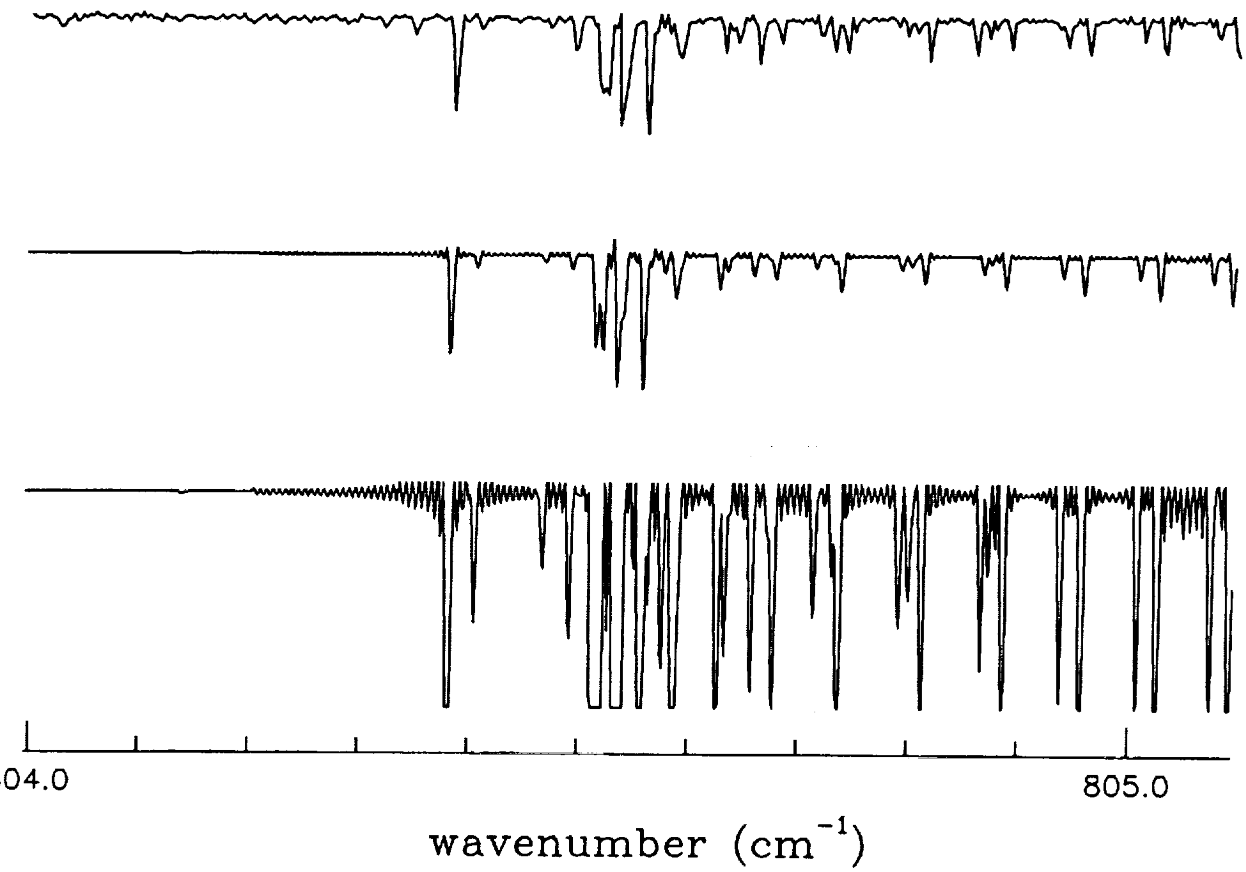
wavenumber (cm⁻¹)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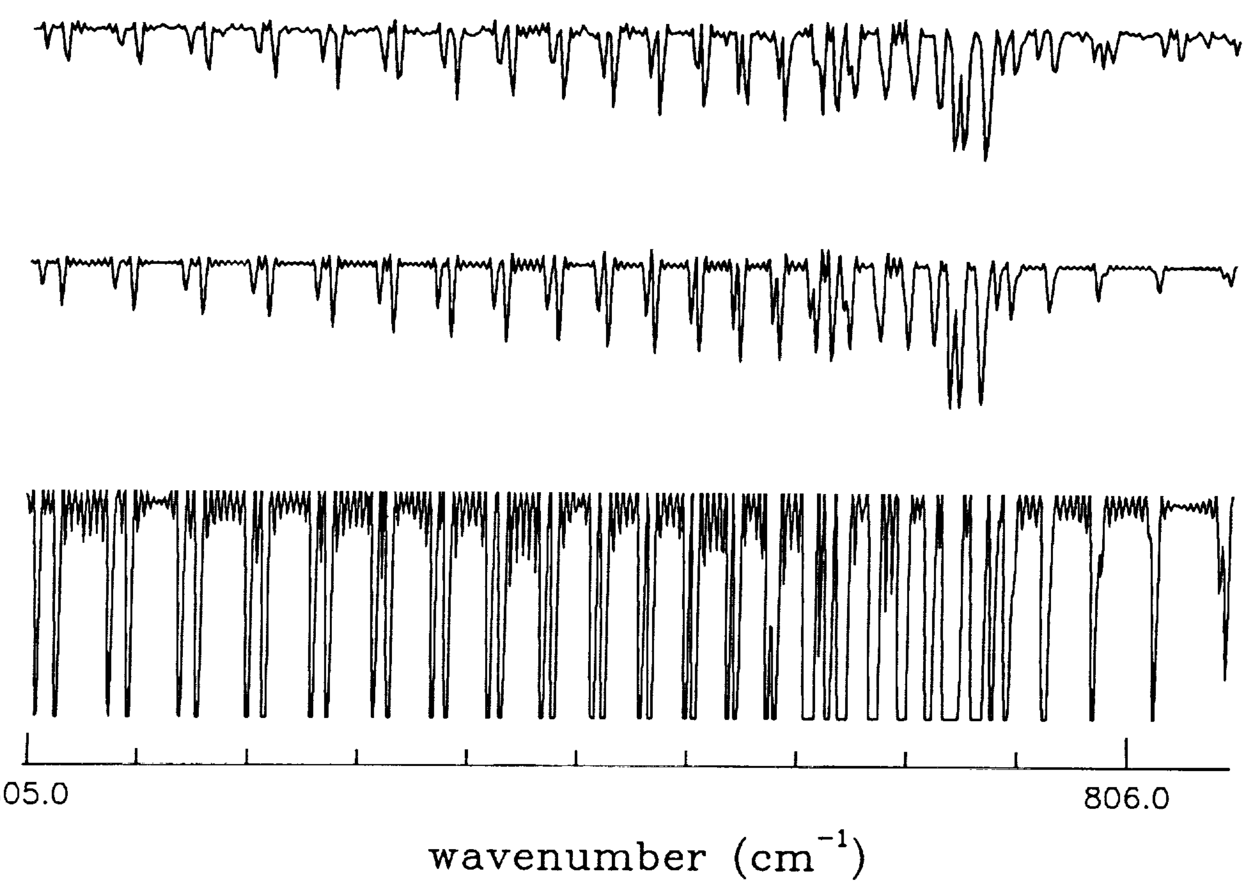
wavenumber (cm⁻¹)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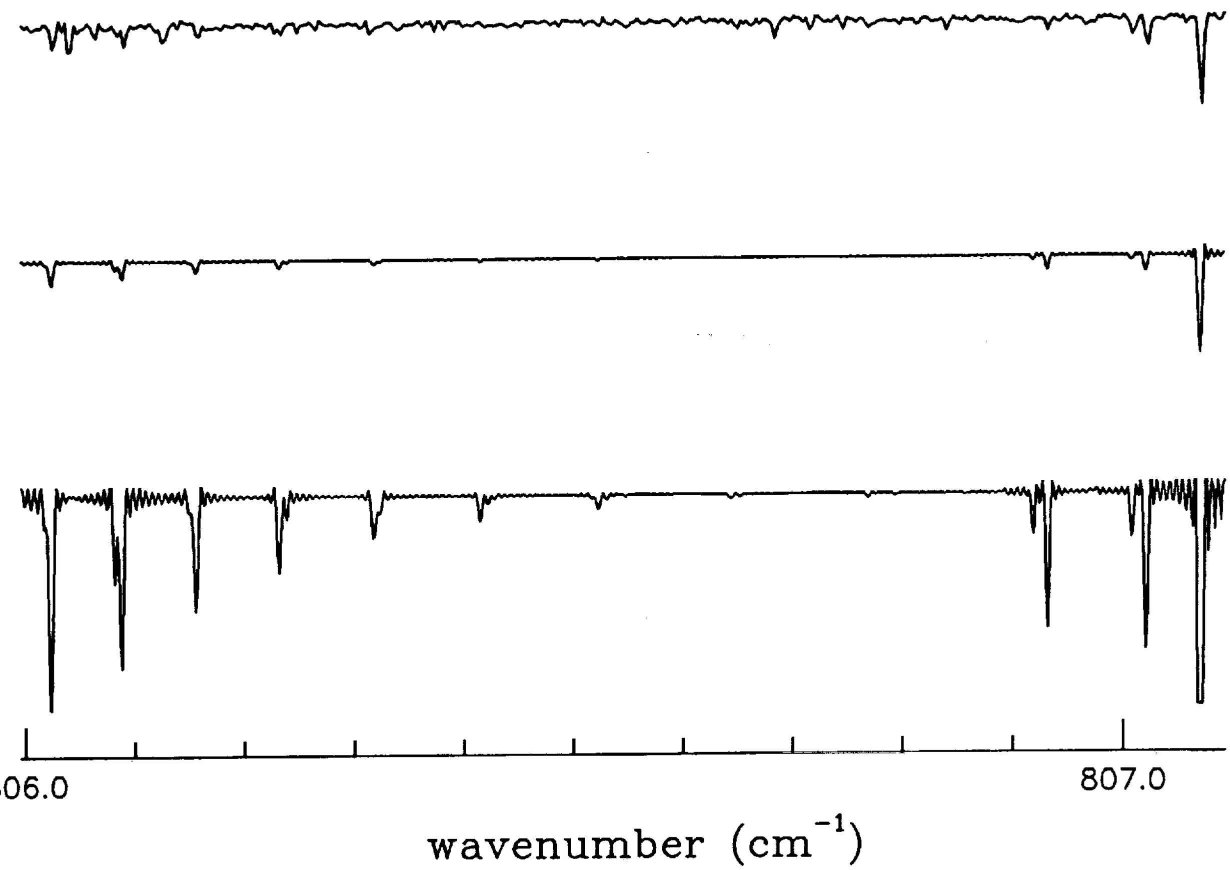
wavenumber (cm⁻¹)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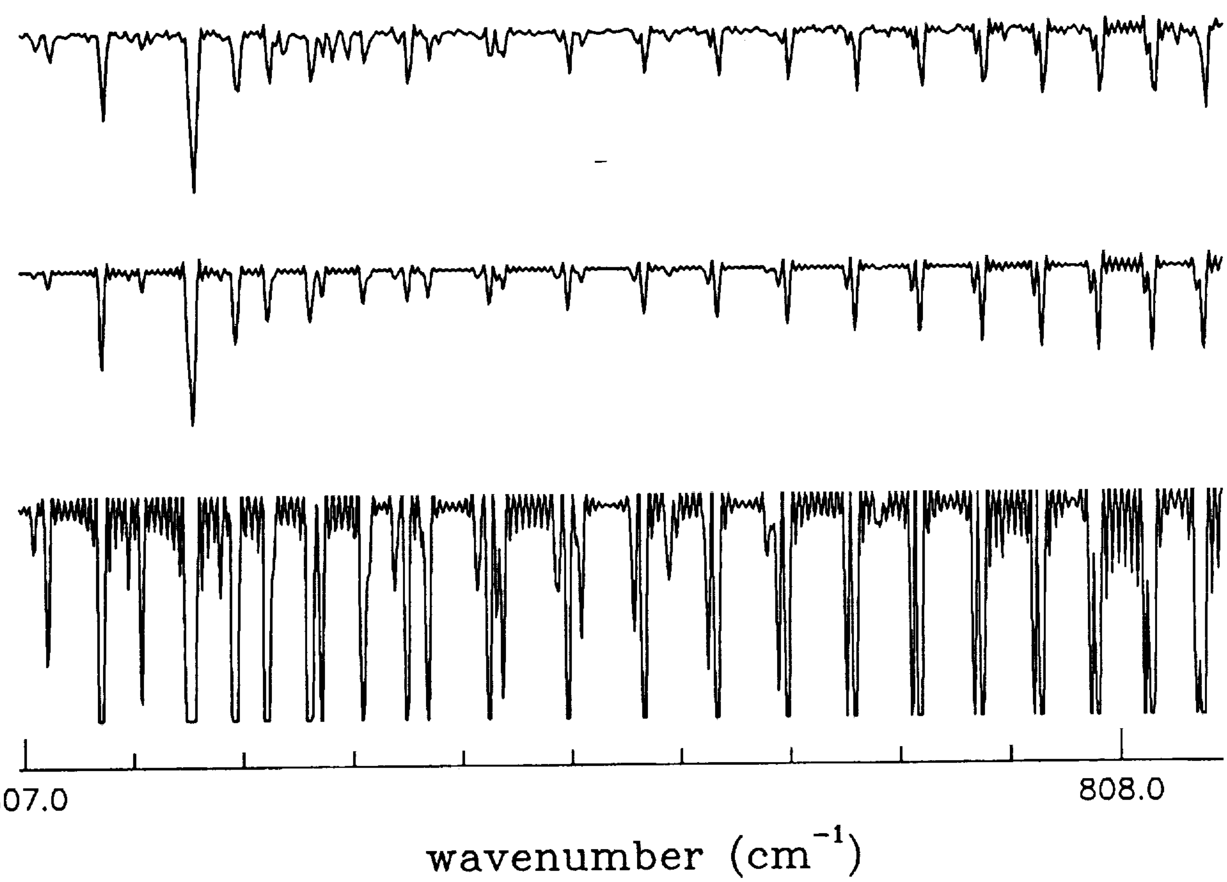
wavenumber (cm⁻¹)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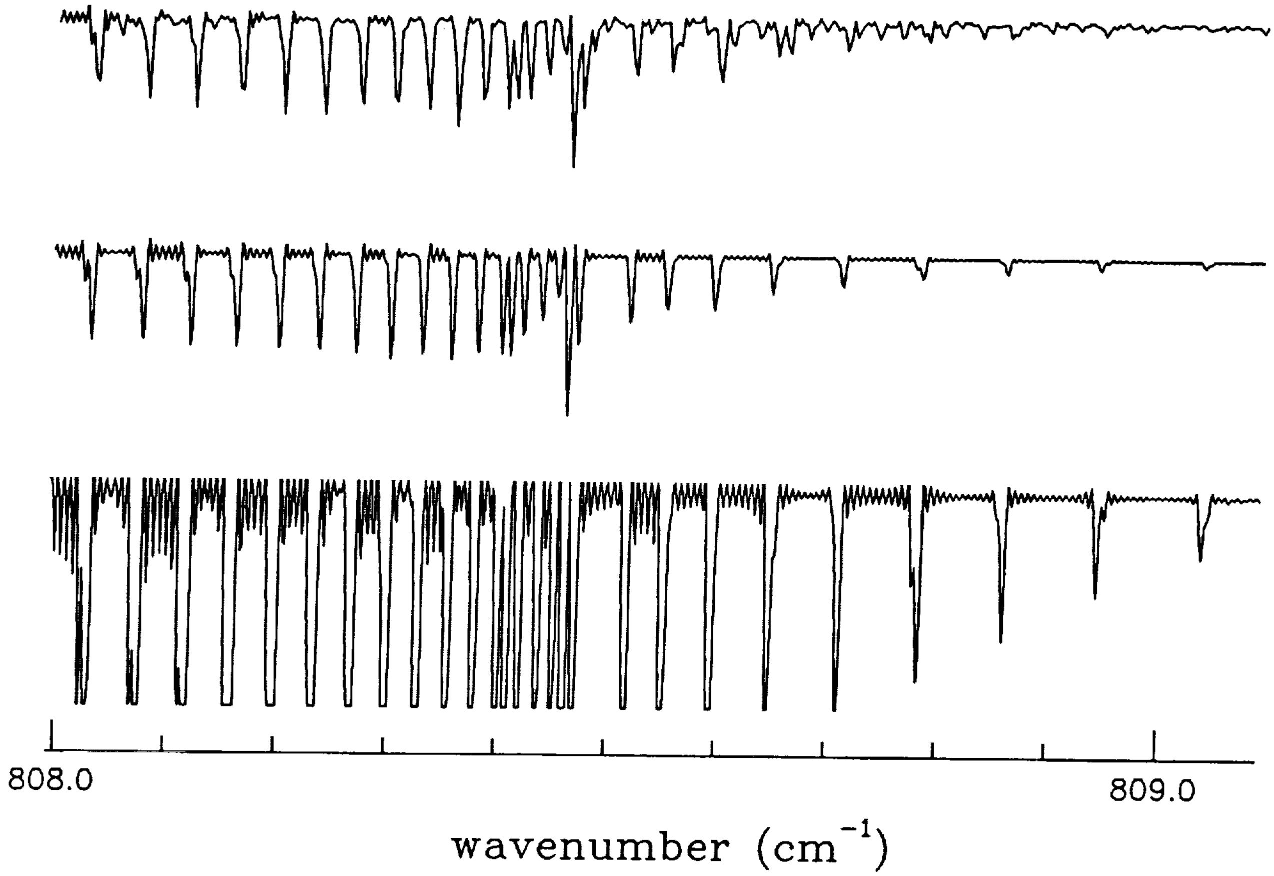
wavenumber (cm⁻¹)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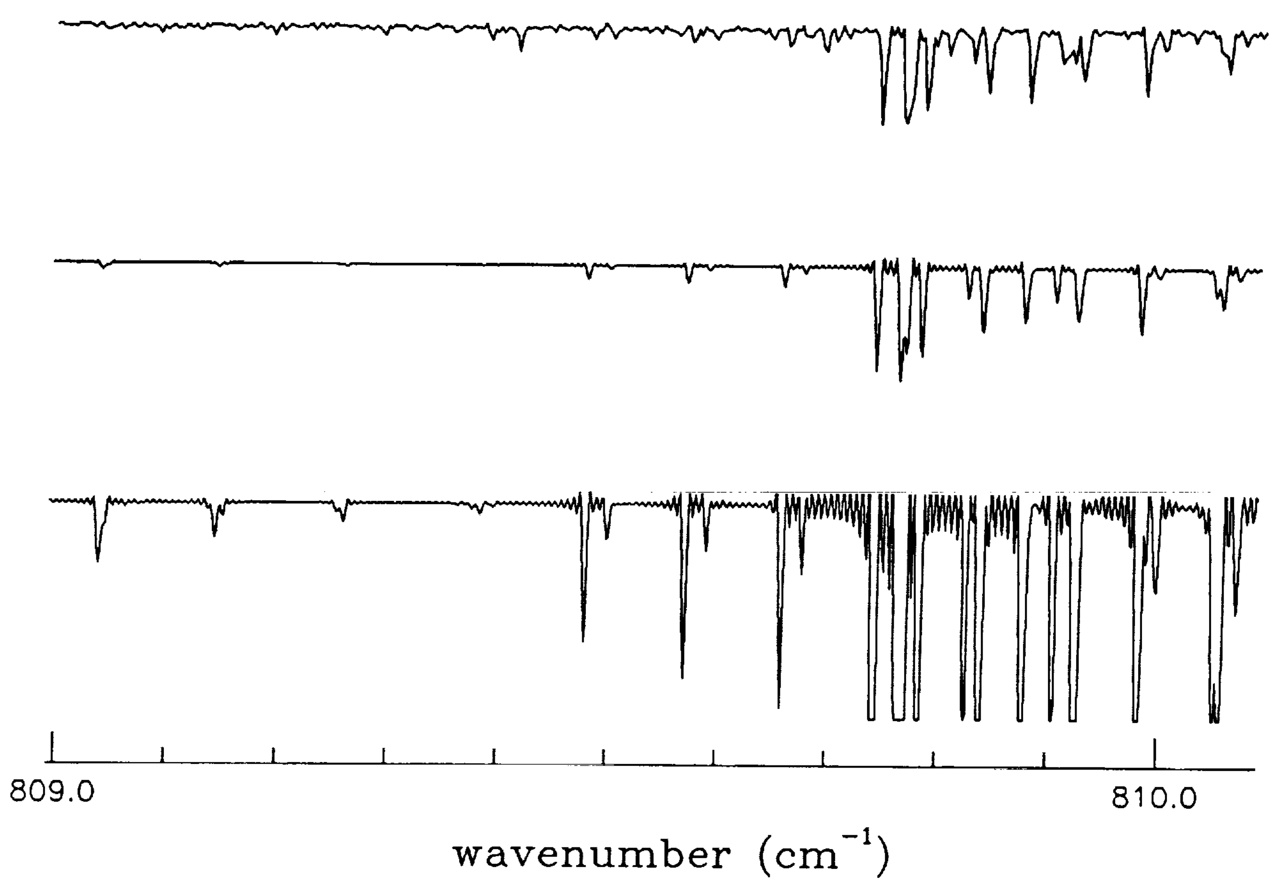
wavenumber (cm⁻¹)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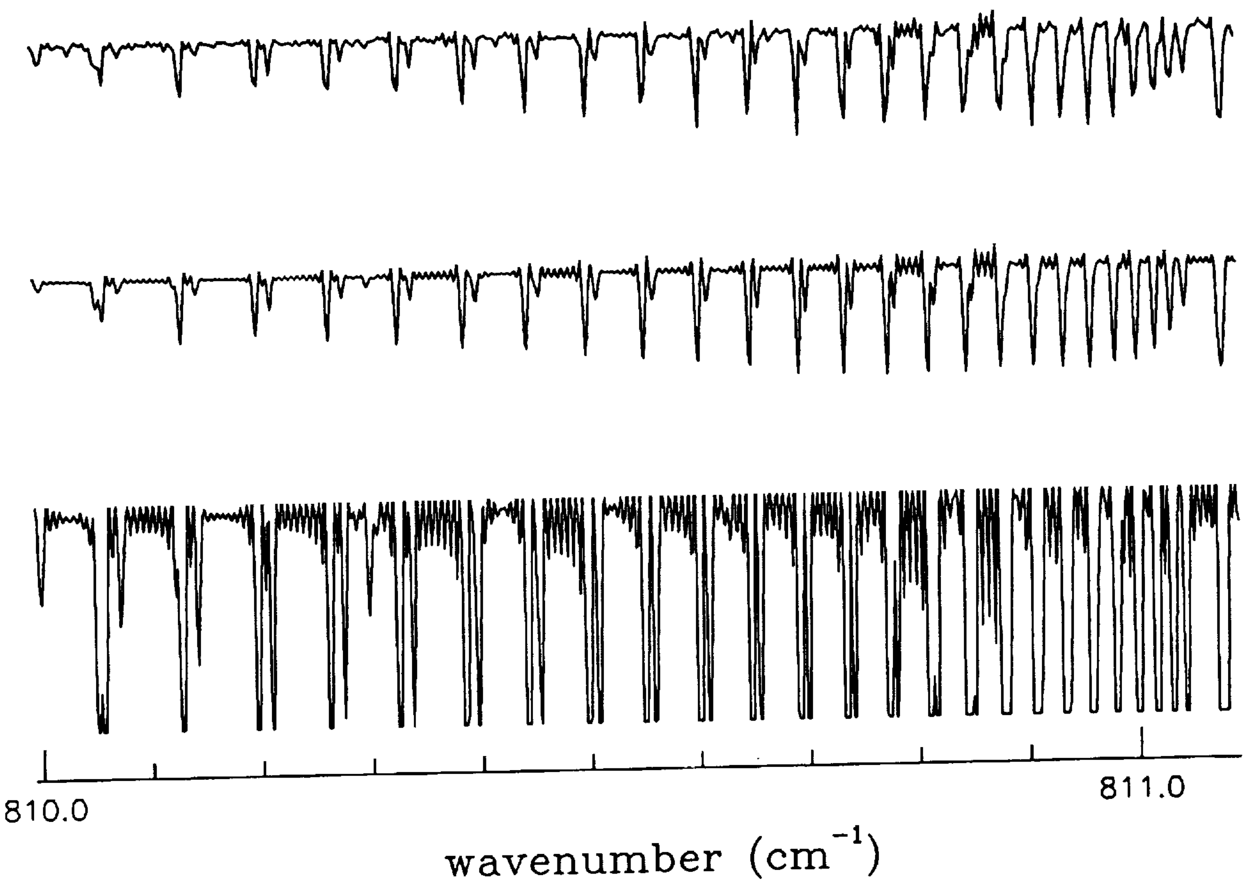
wavenumber (cm⁻¹)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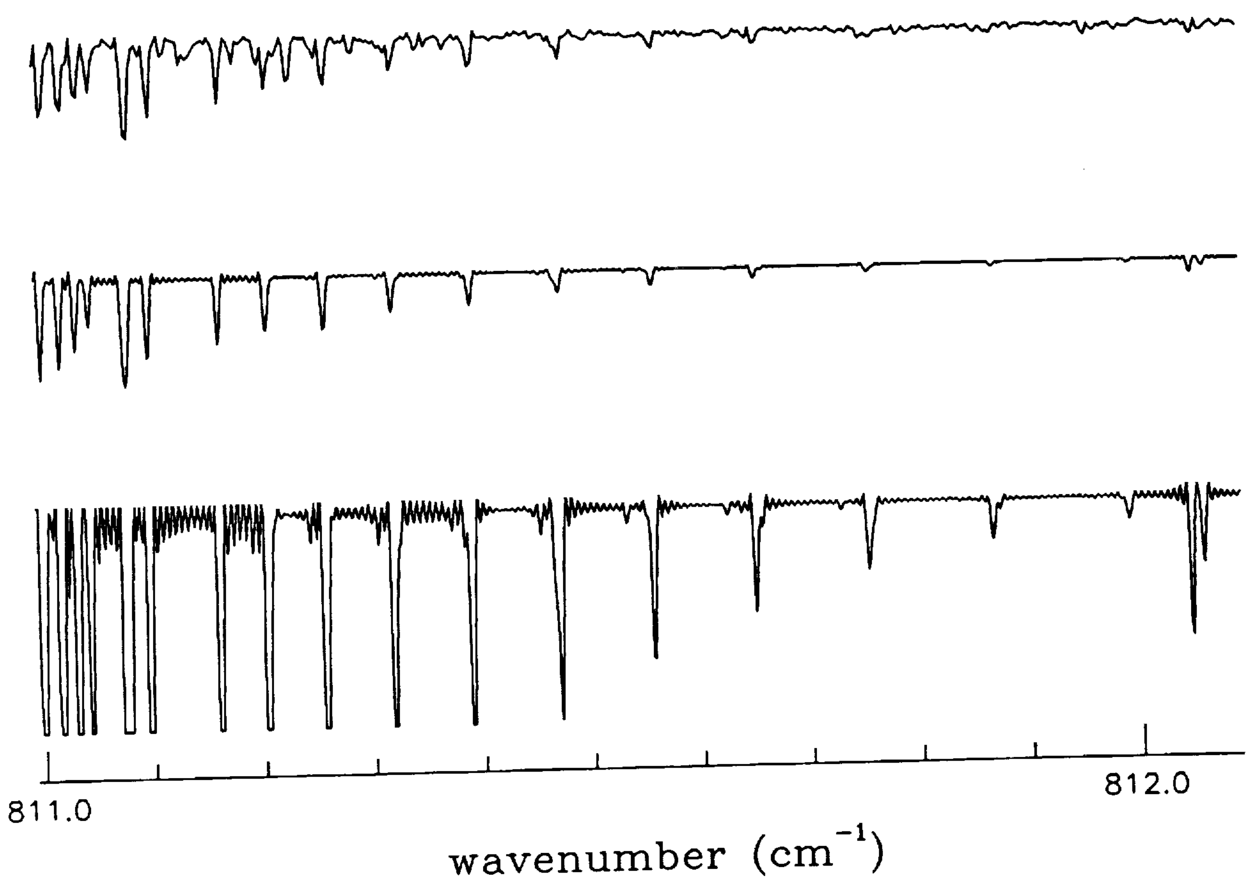
wavenumber (cm^{-1})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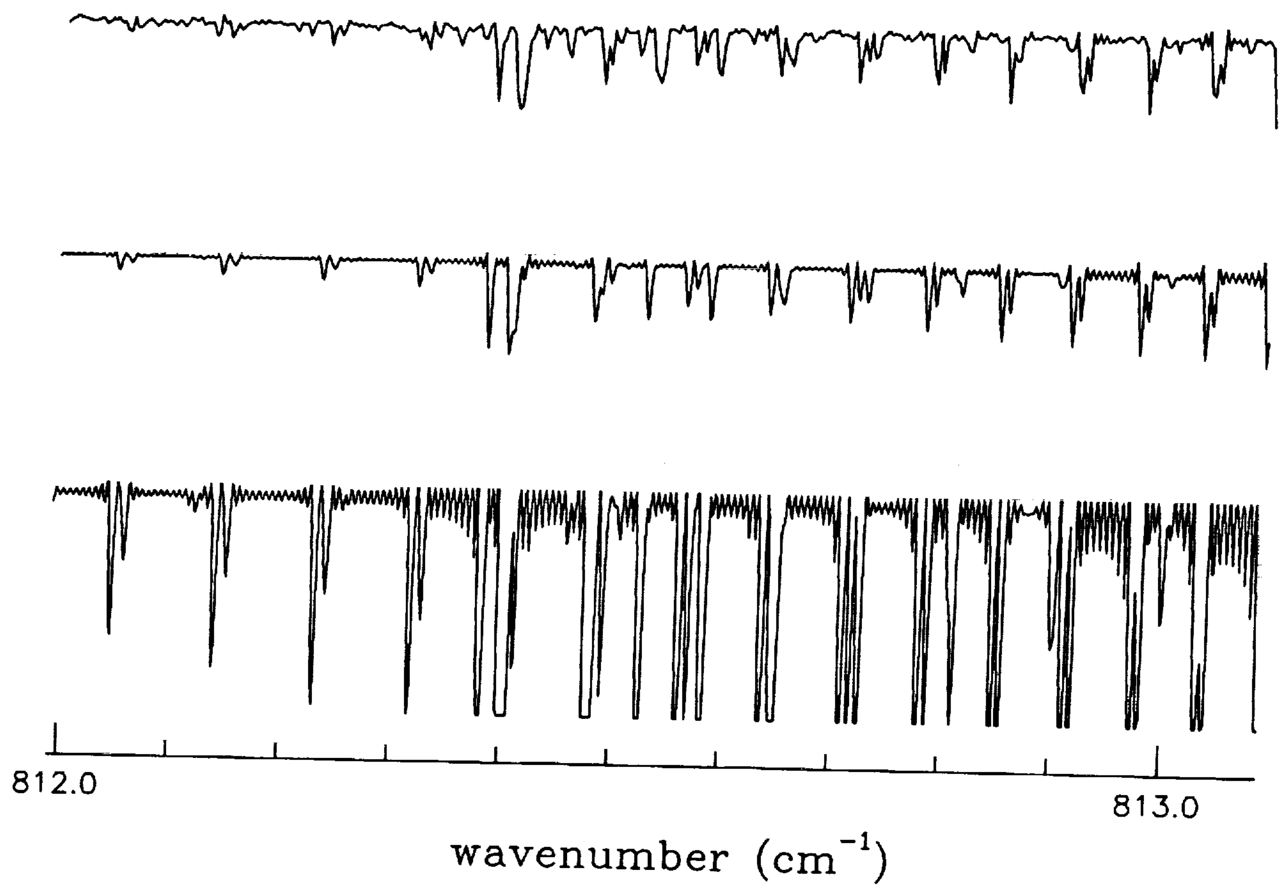
wavenumber (cm^{-1})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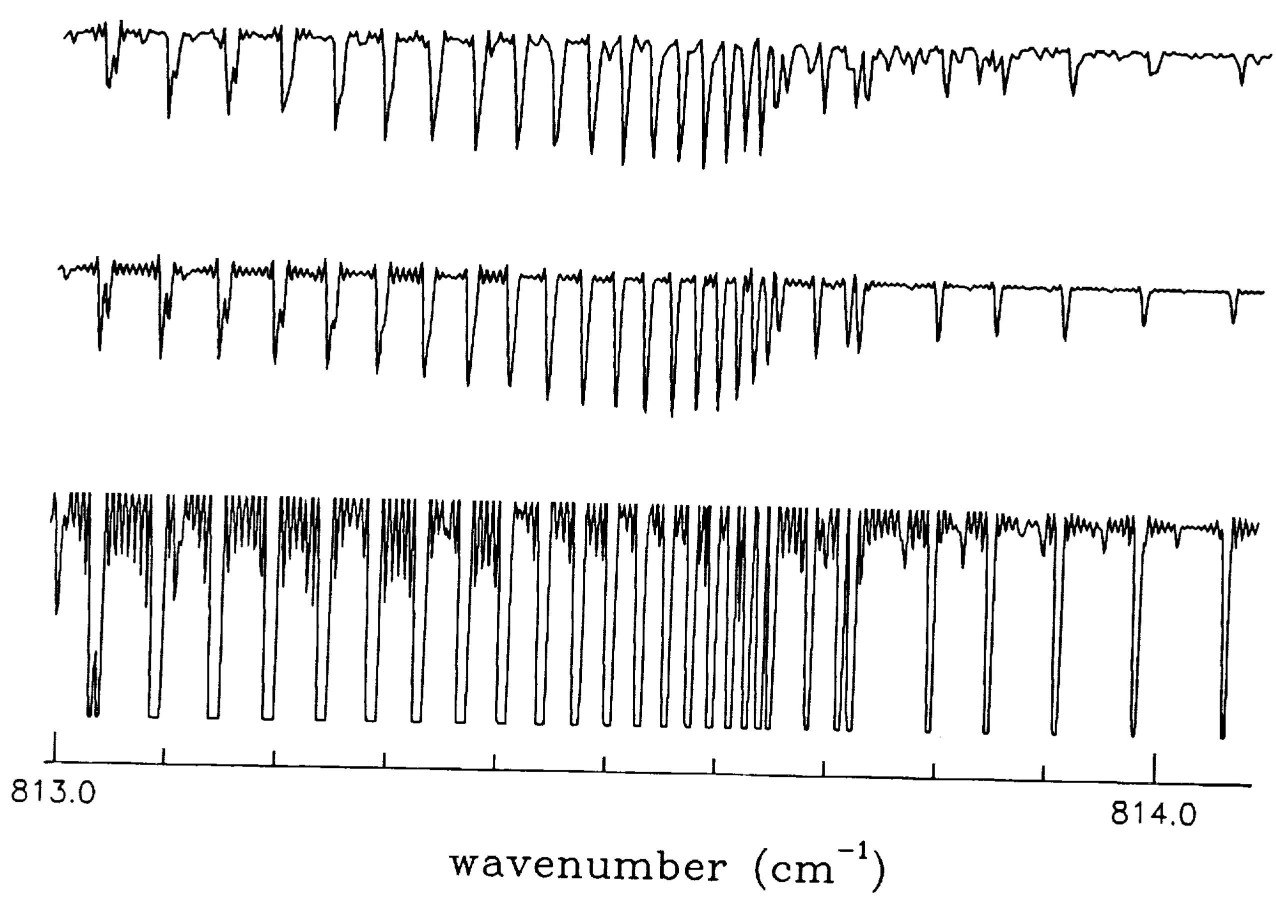
wavenumber (cm^{-1})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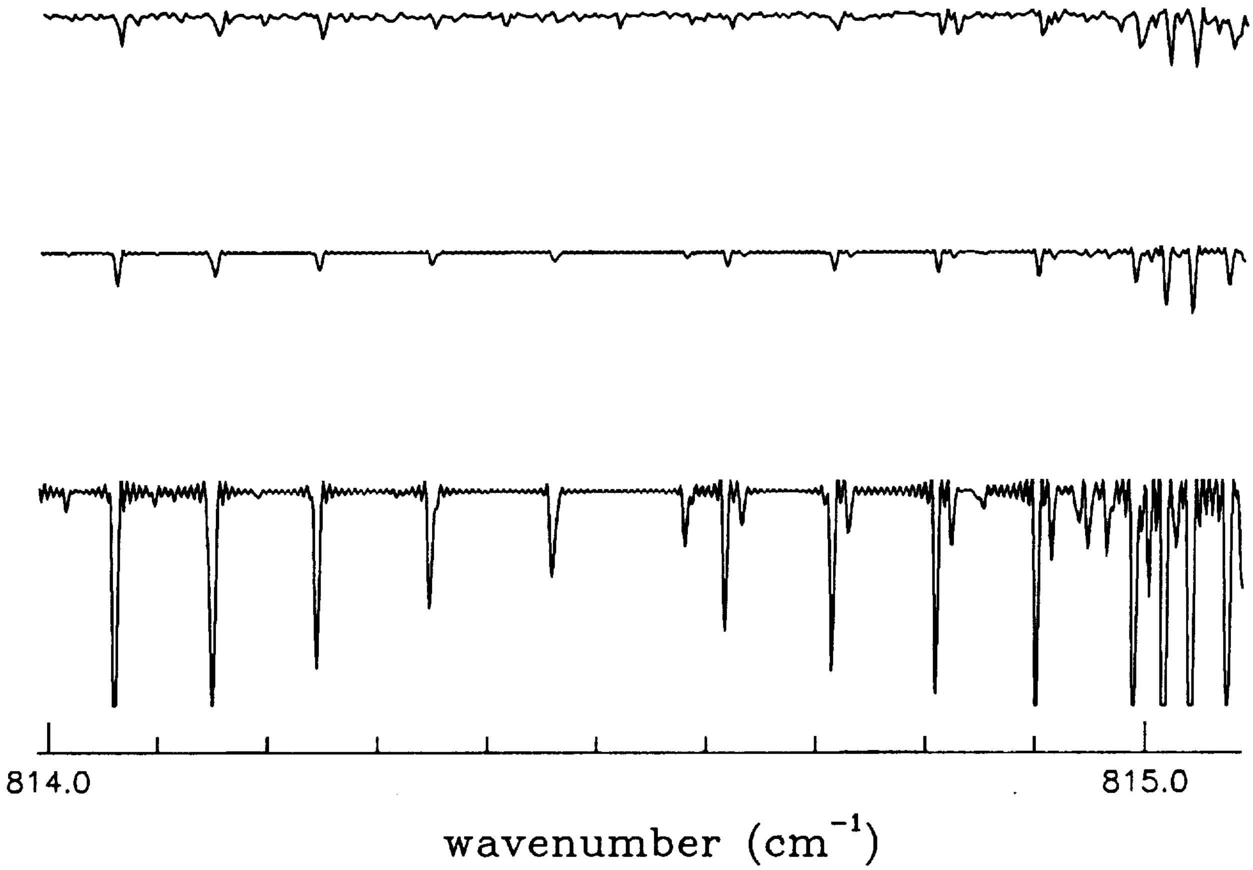
wavenumber (cm^{-1})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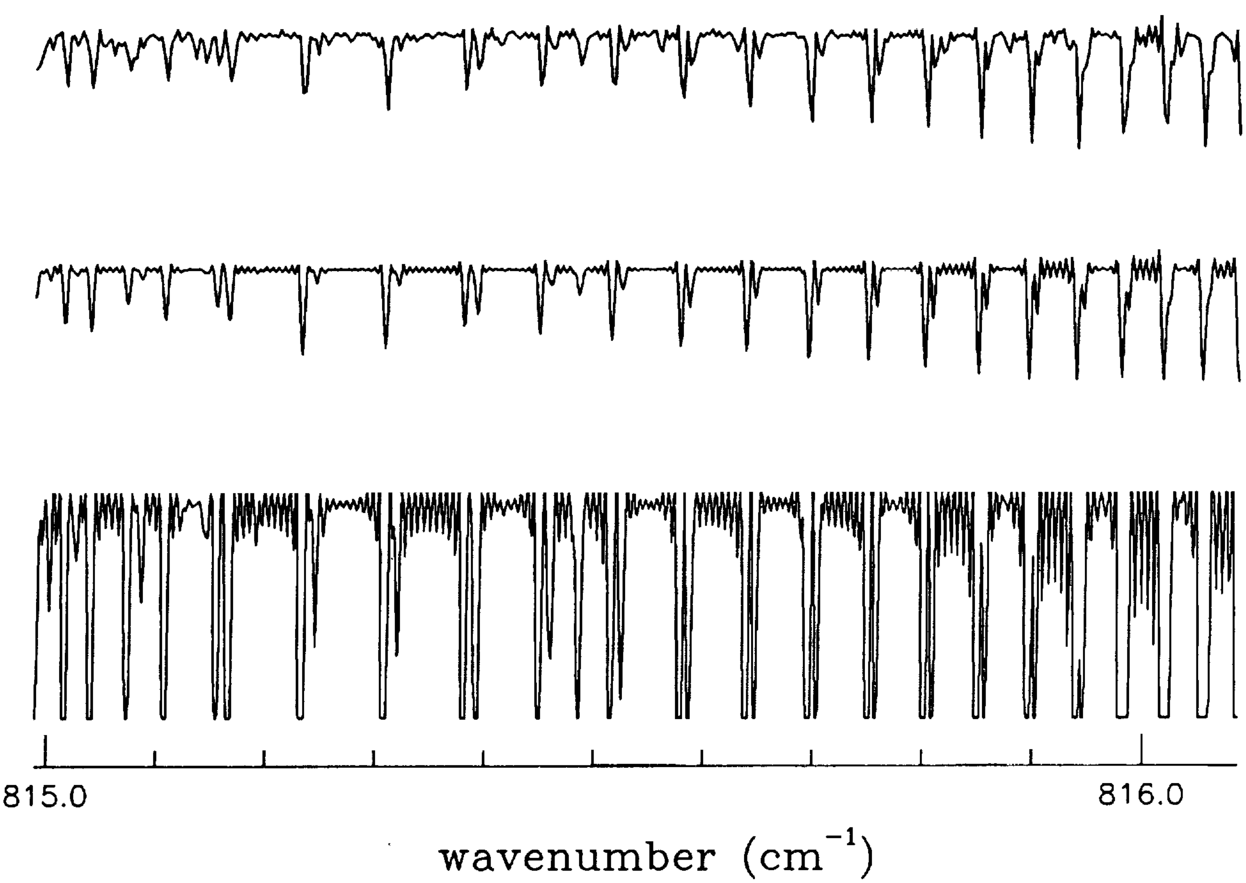
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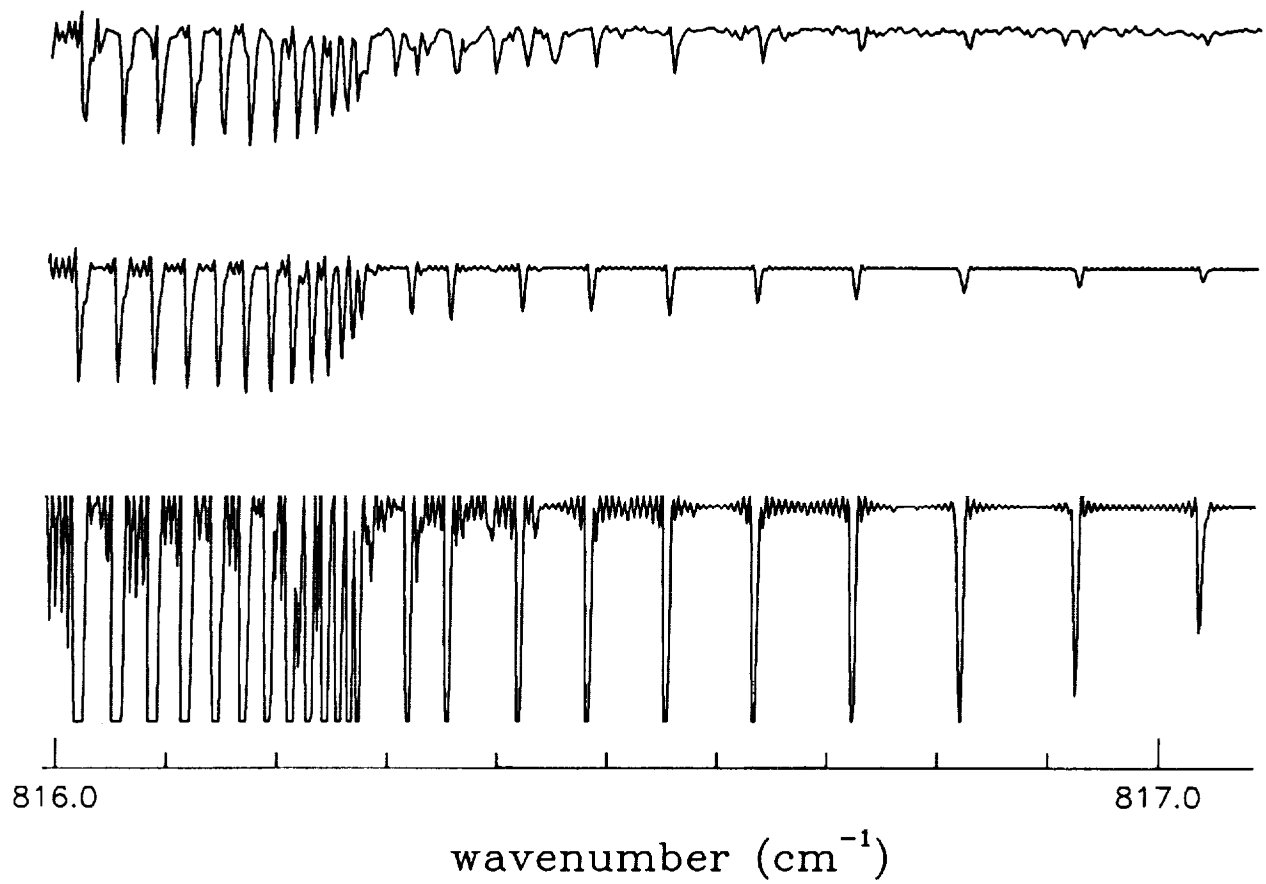
wavenumber (cm⁻¹)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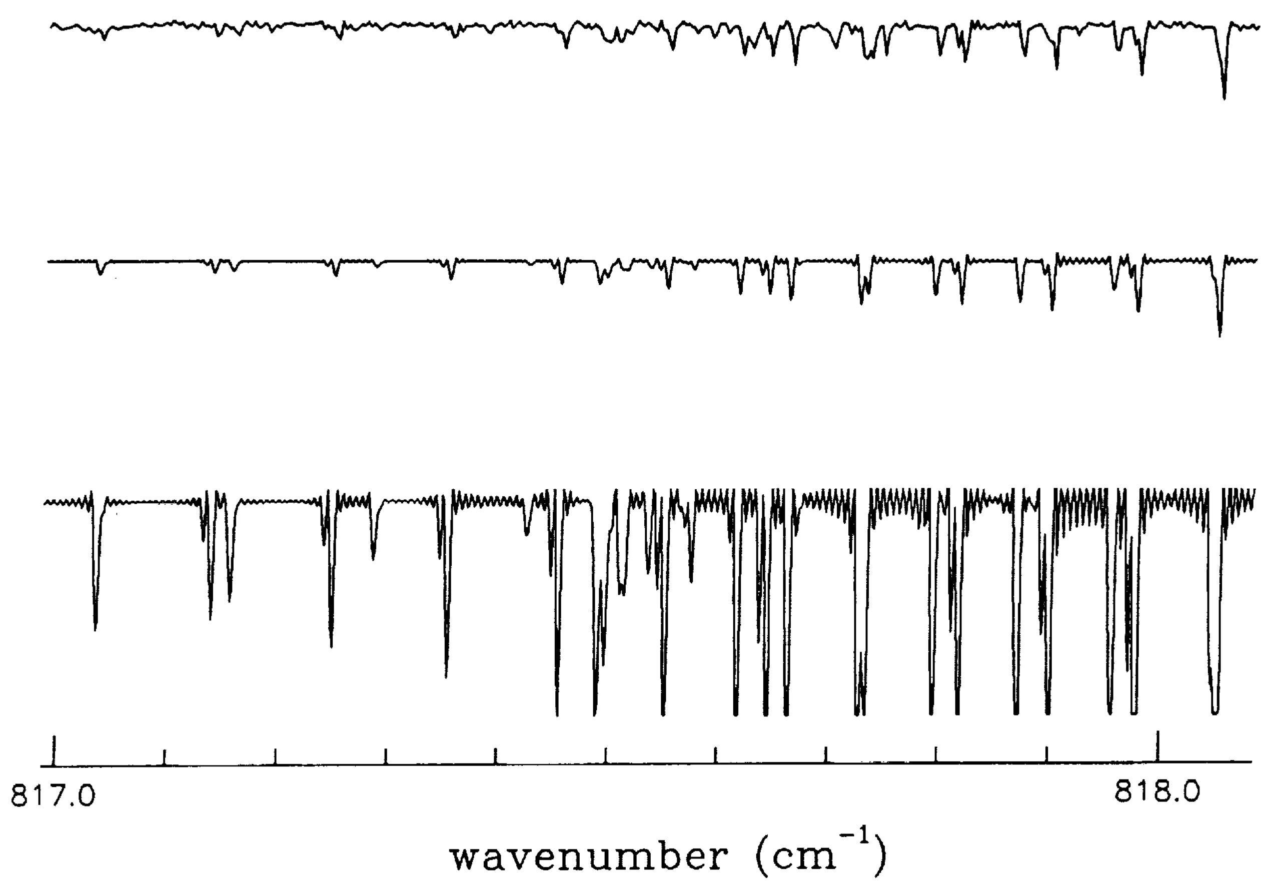
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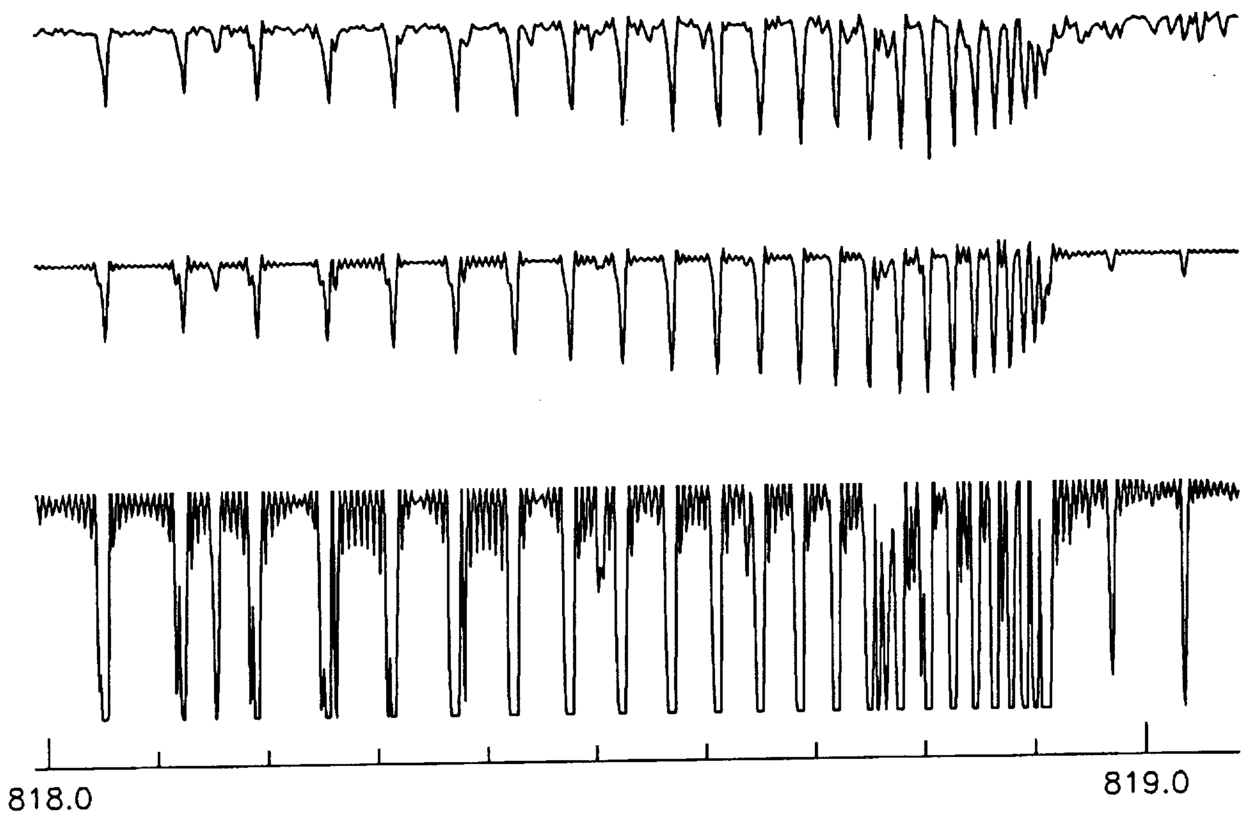
wavenumber (cm^{-1})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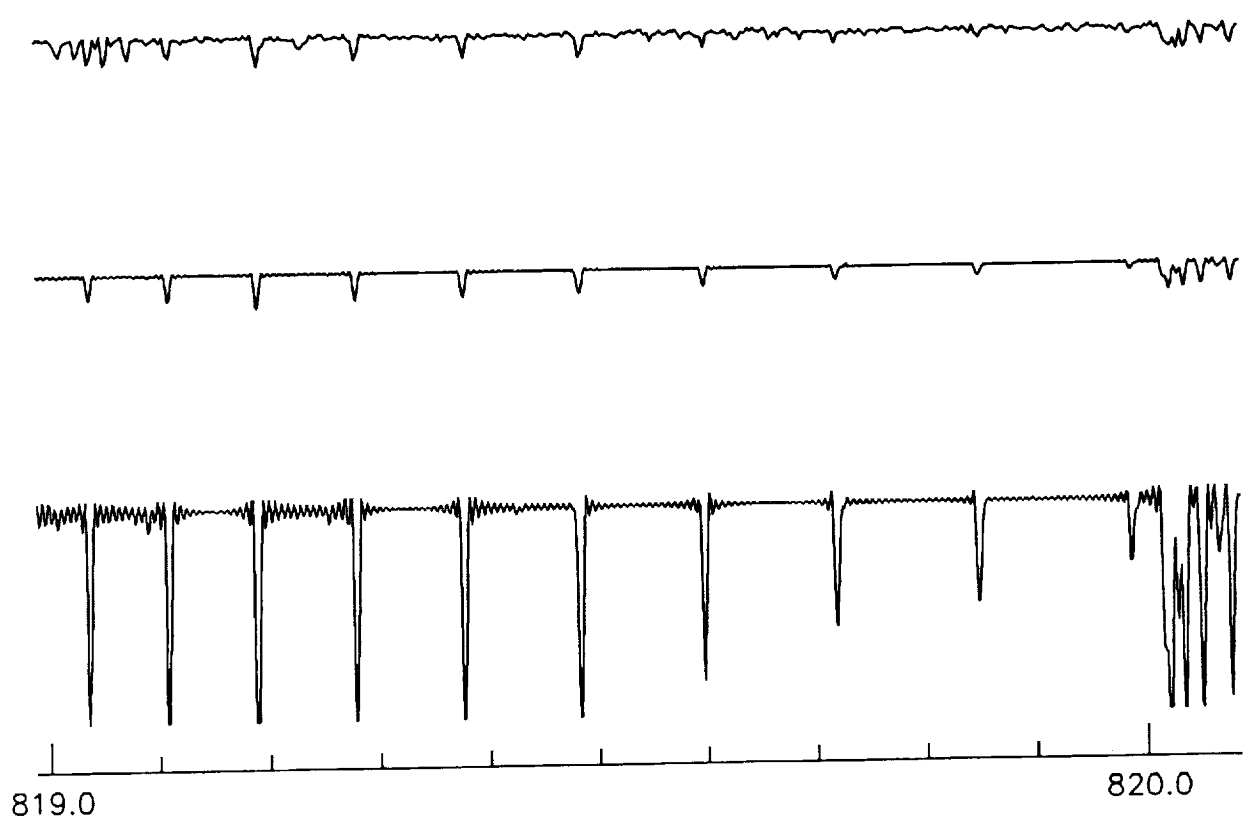
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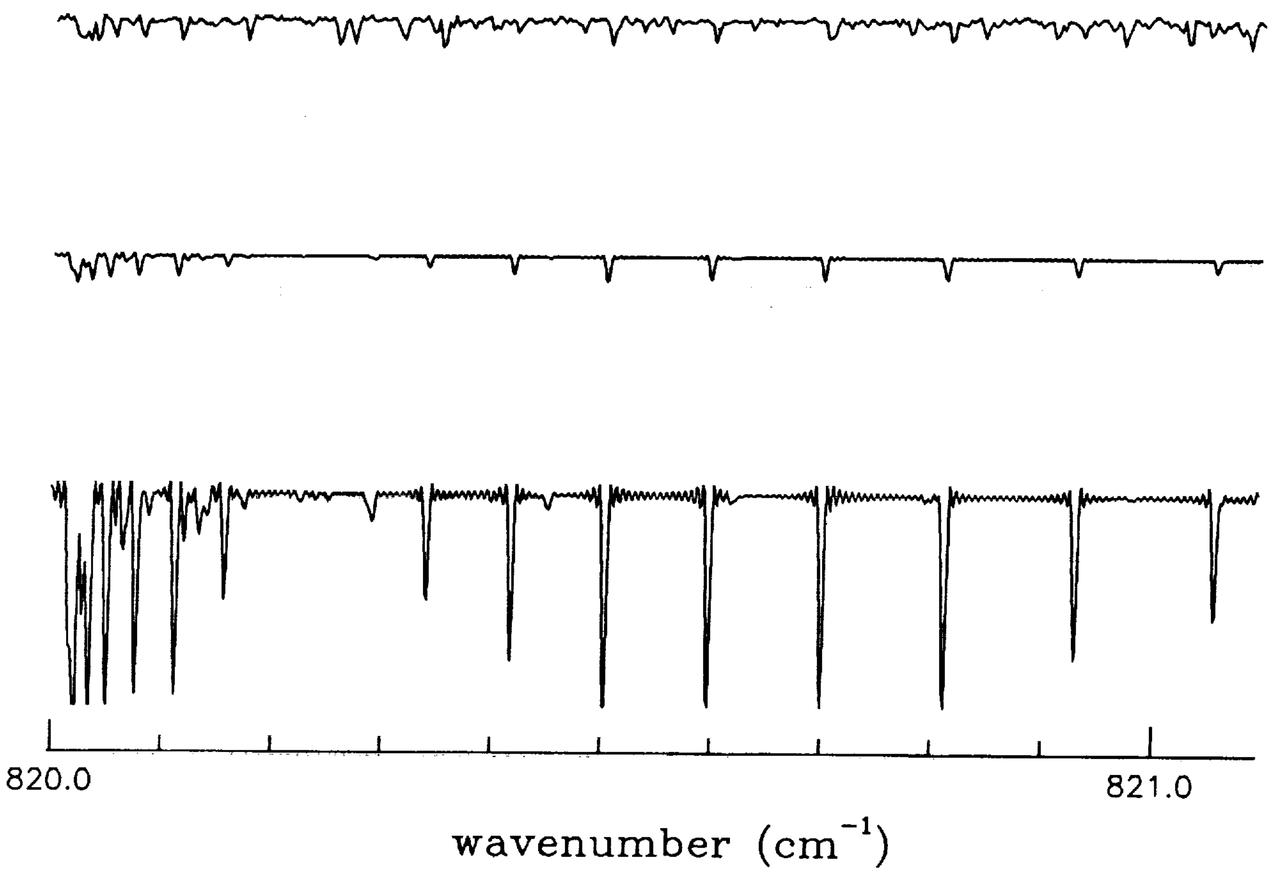

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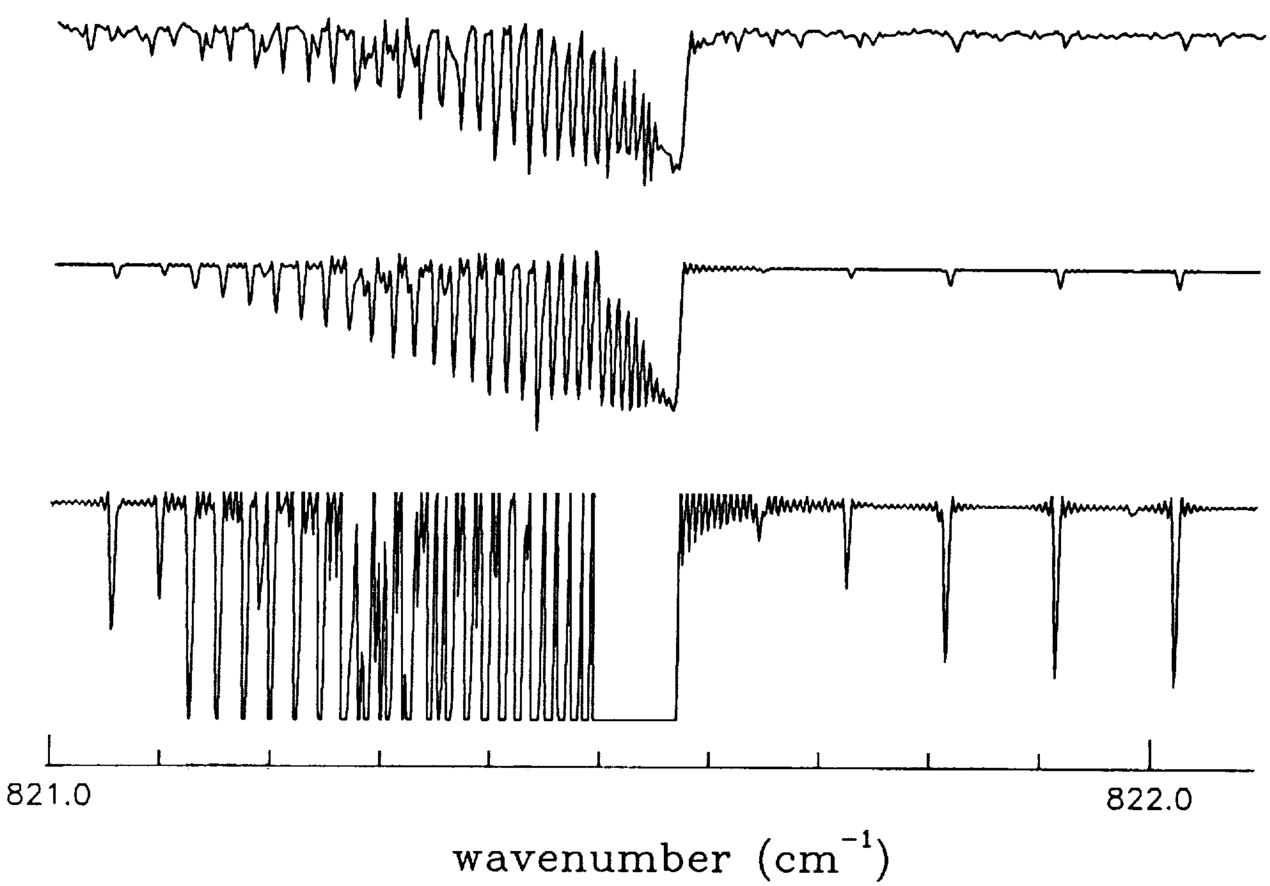

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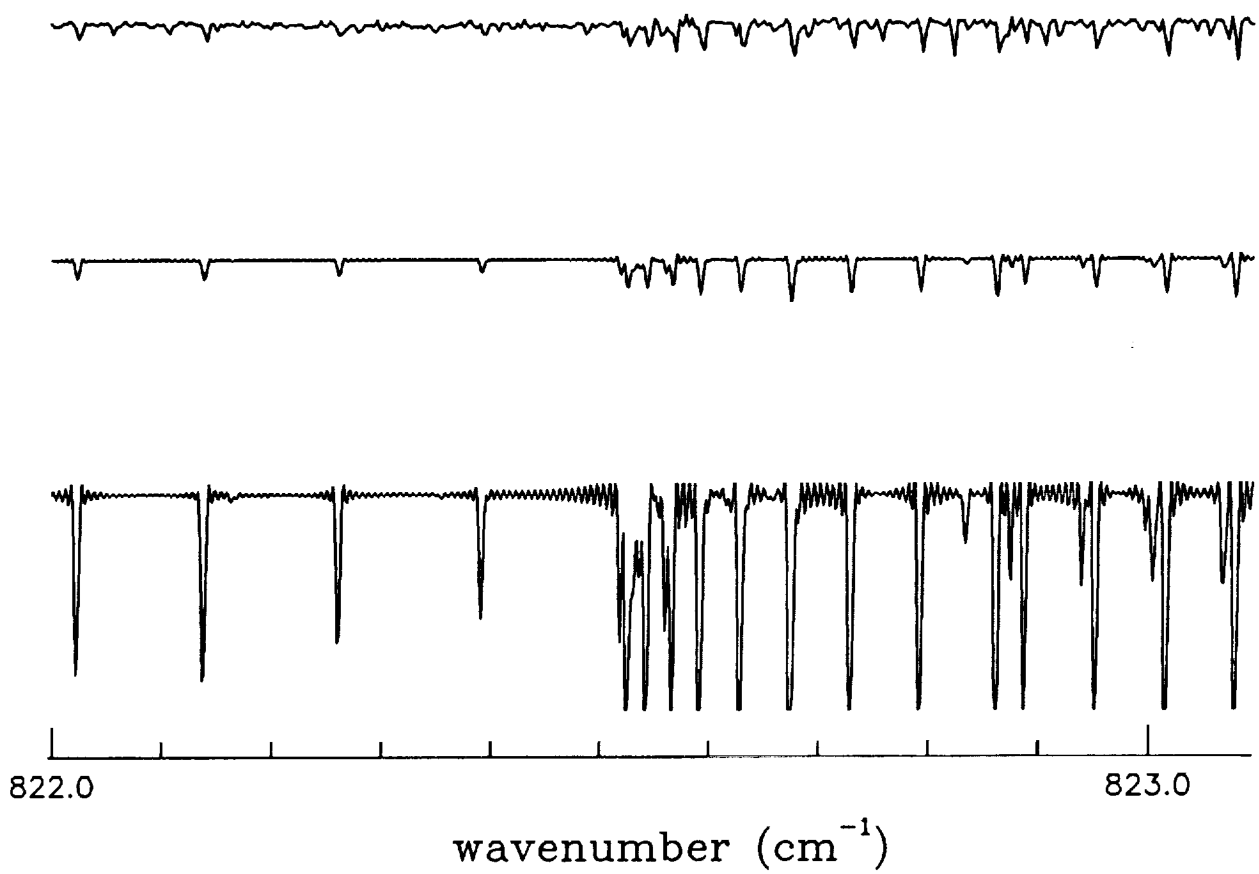
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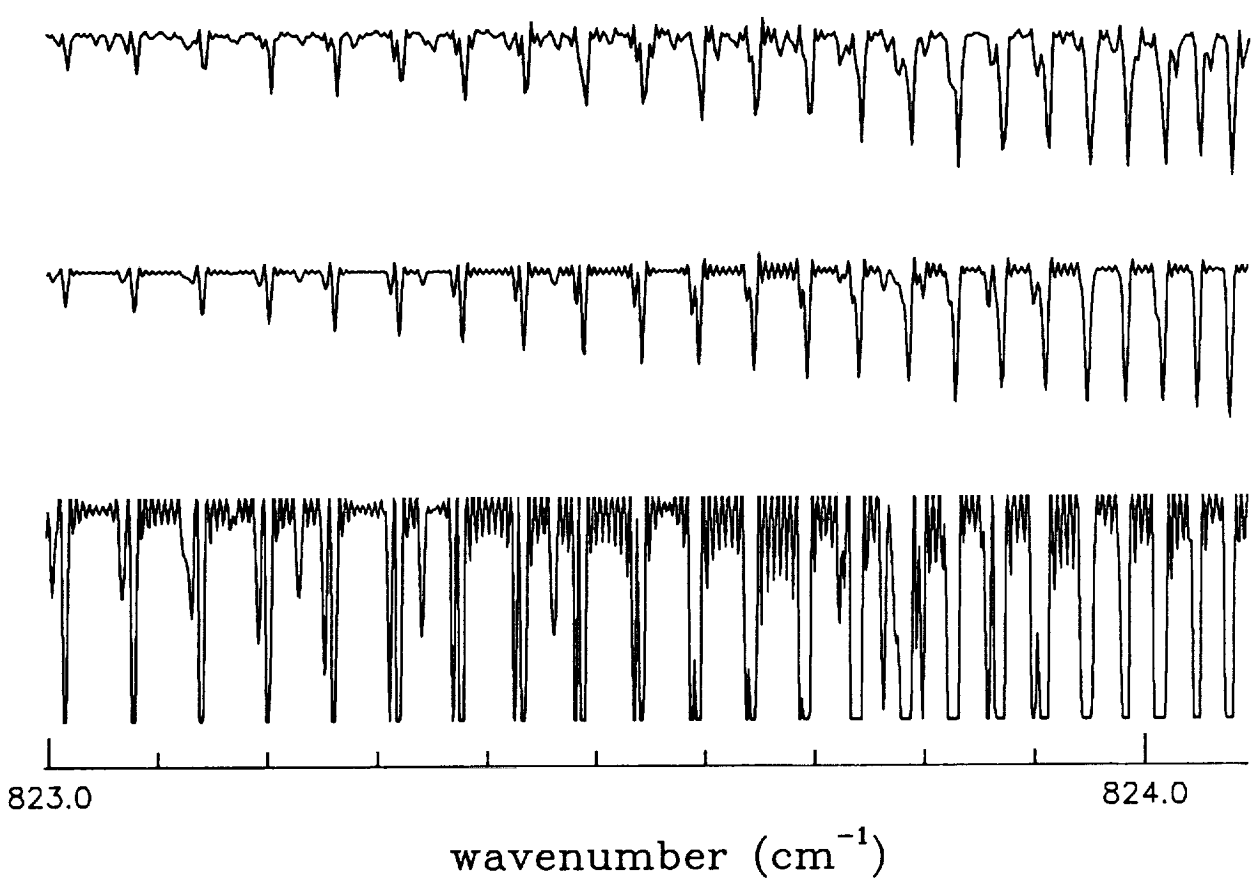
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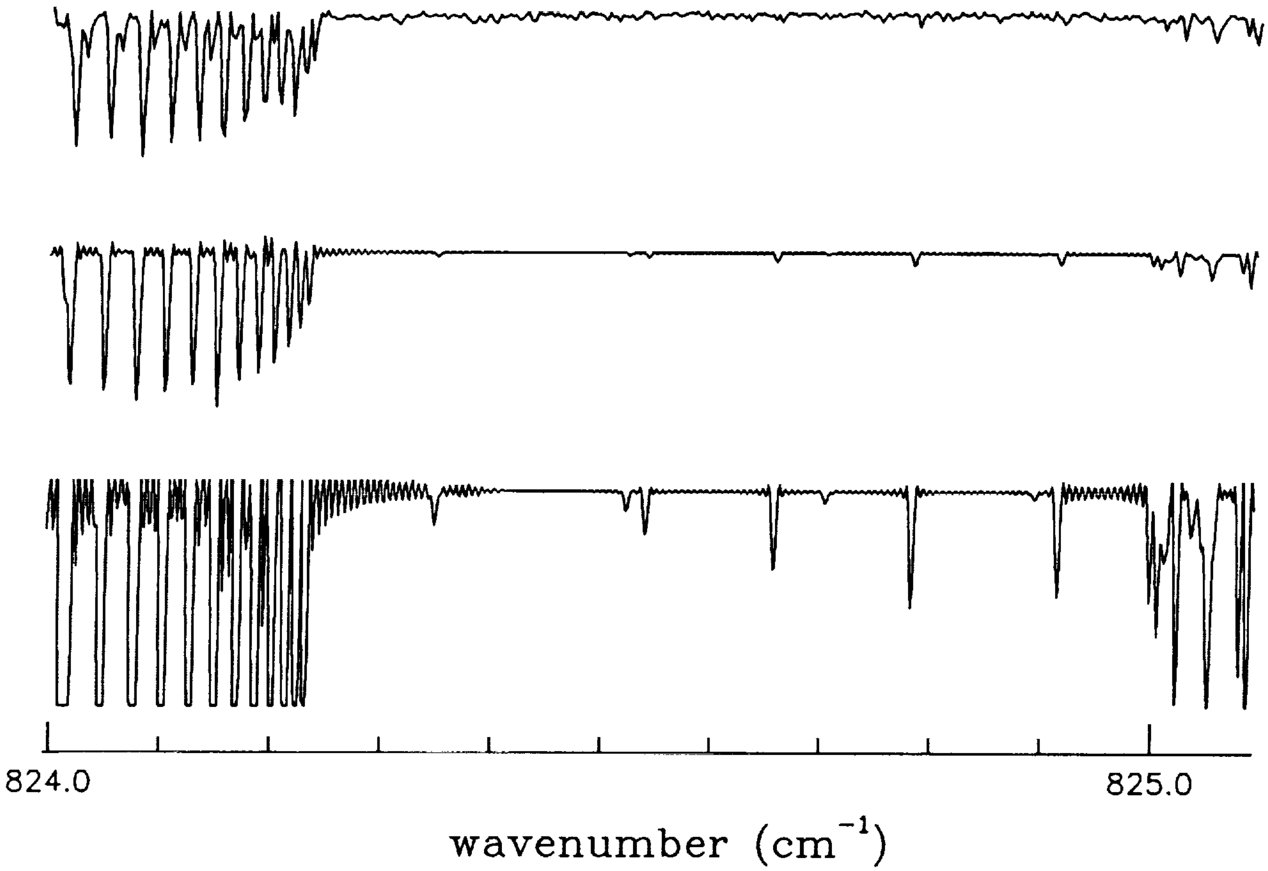
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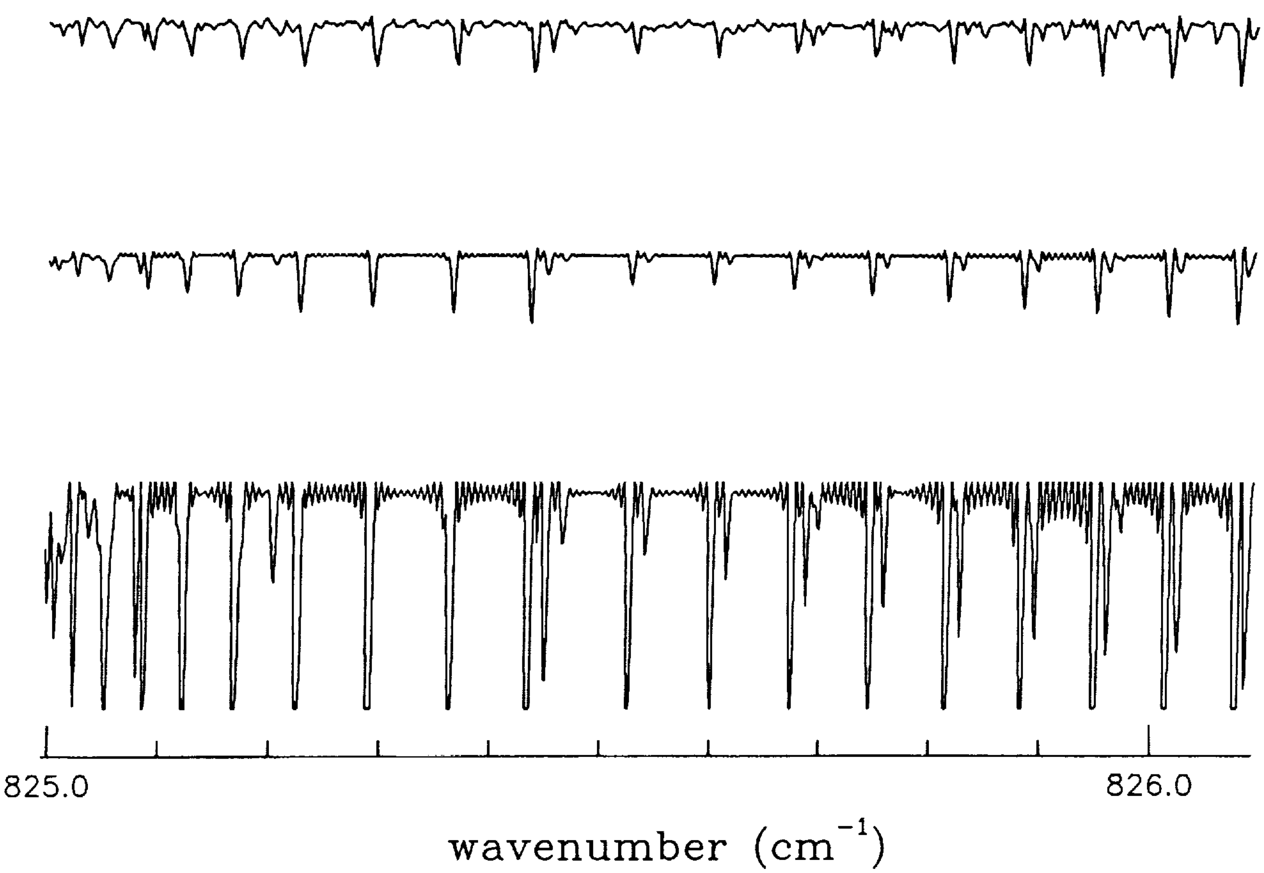
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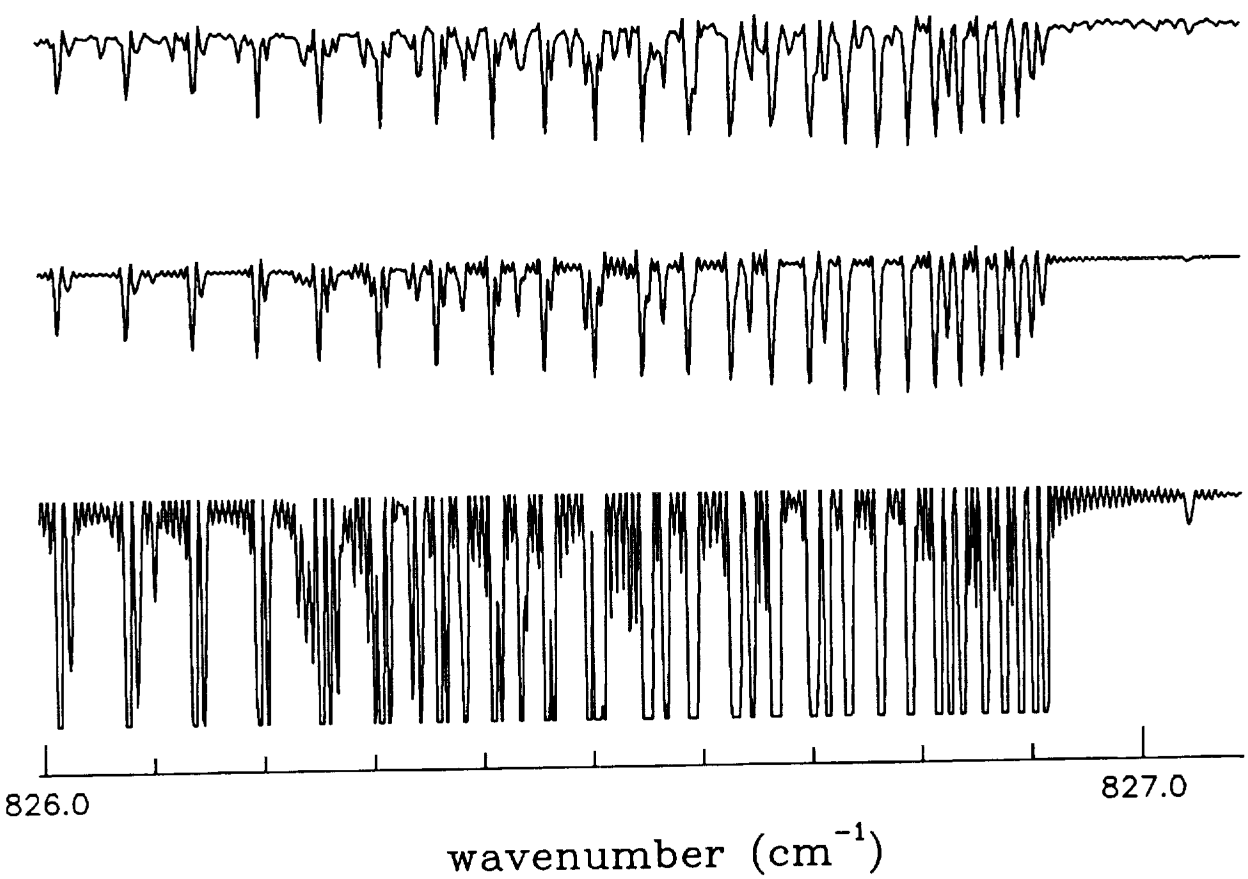
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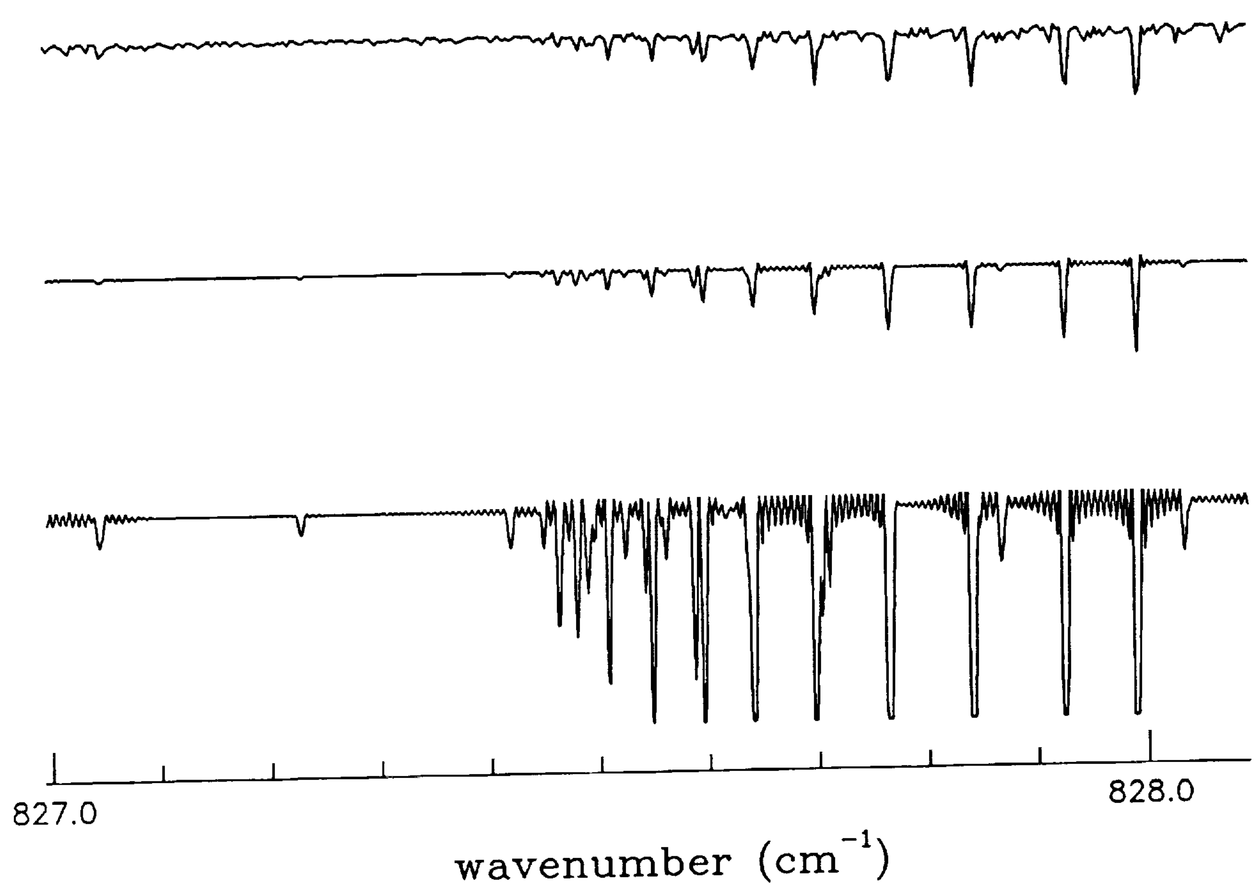
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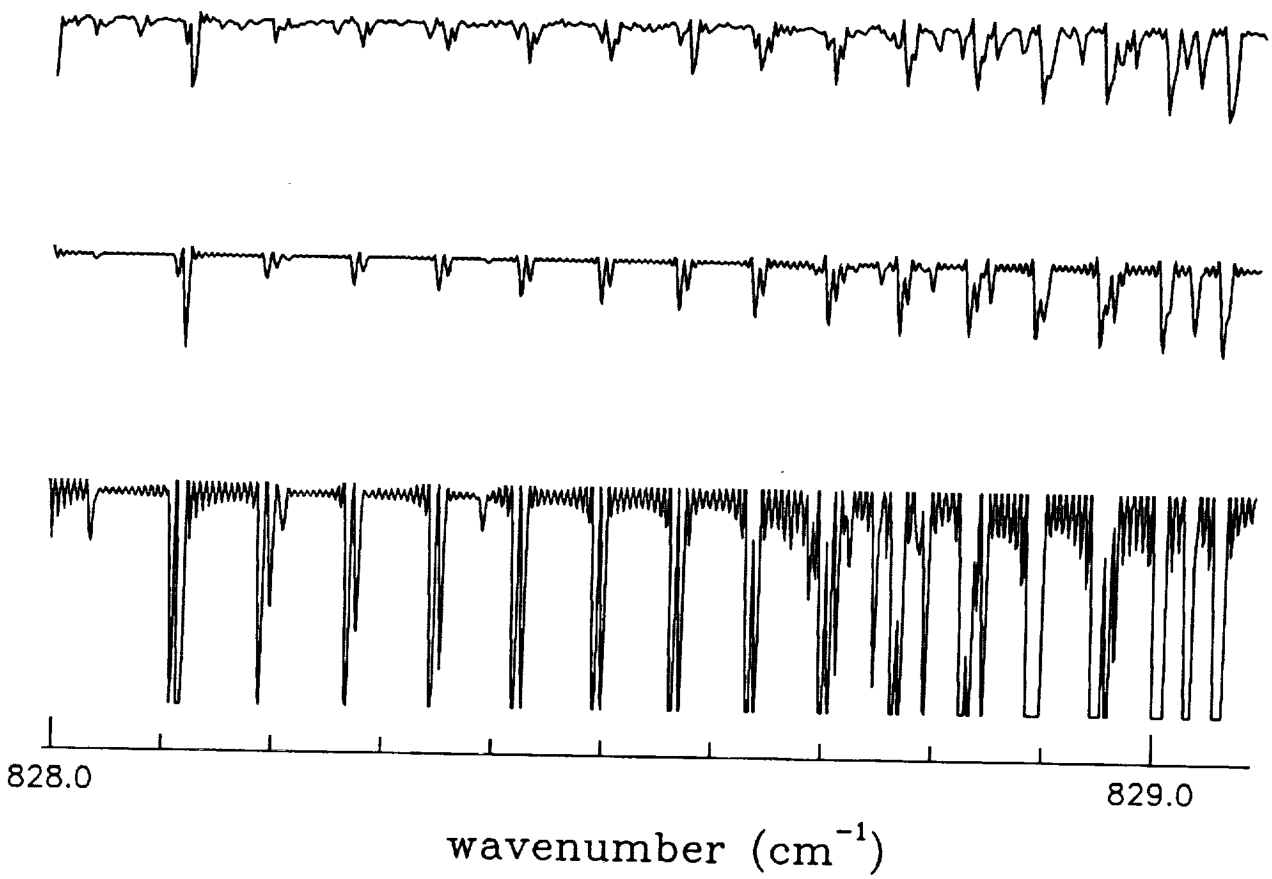
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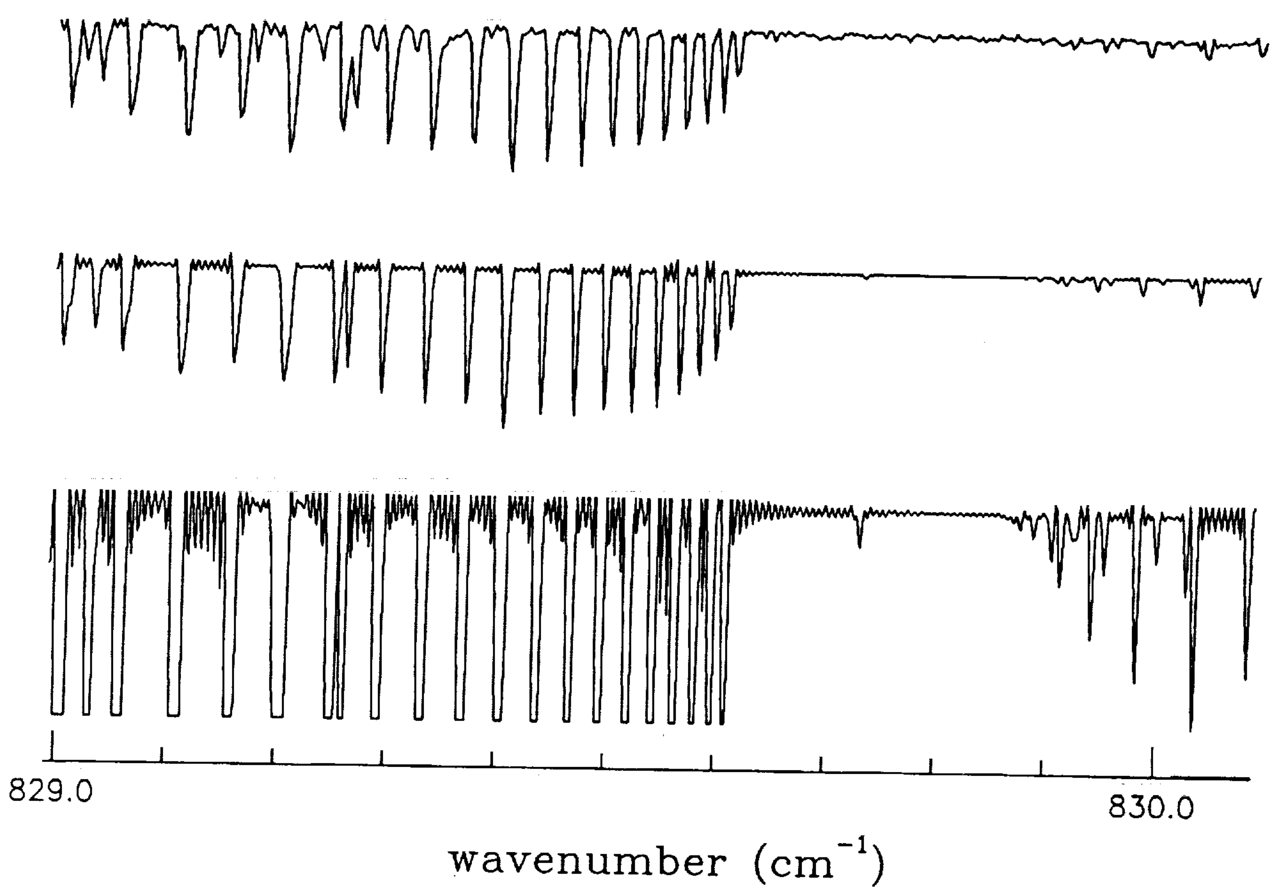
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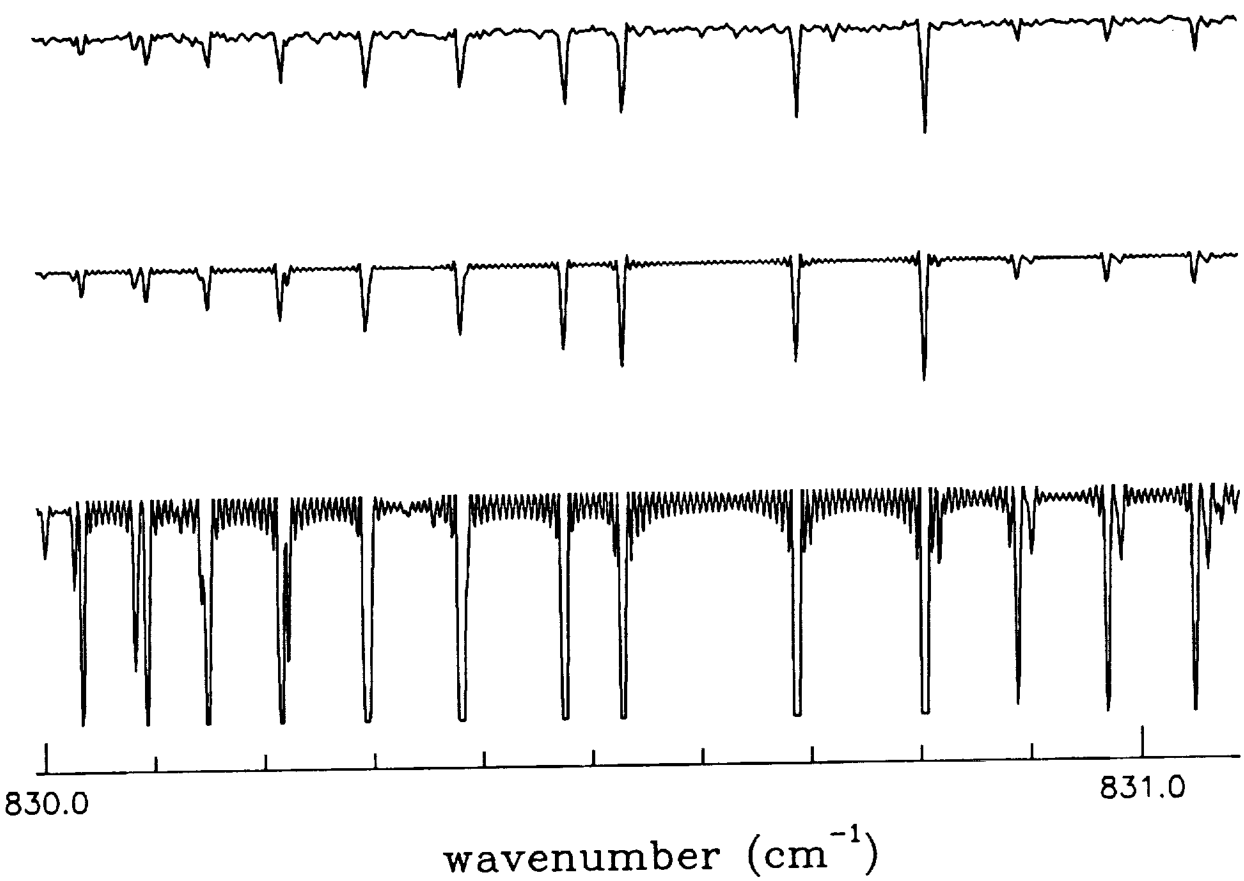
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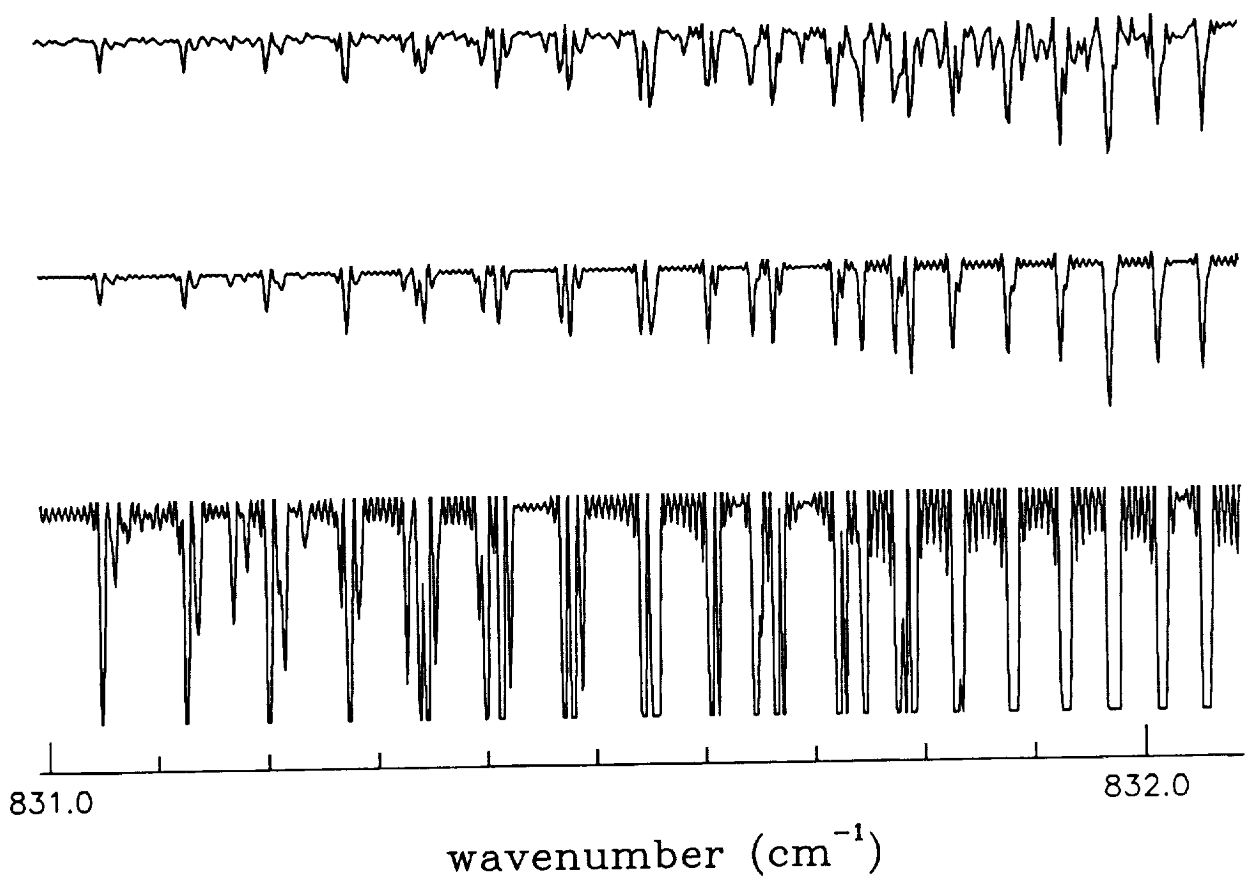
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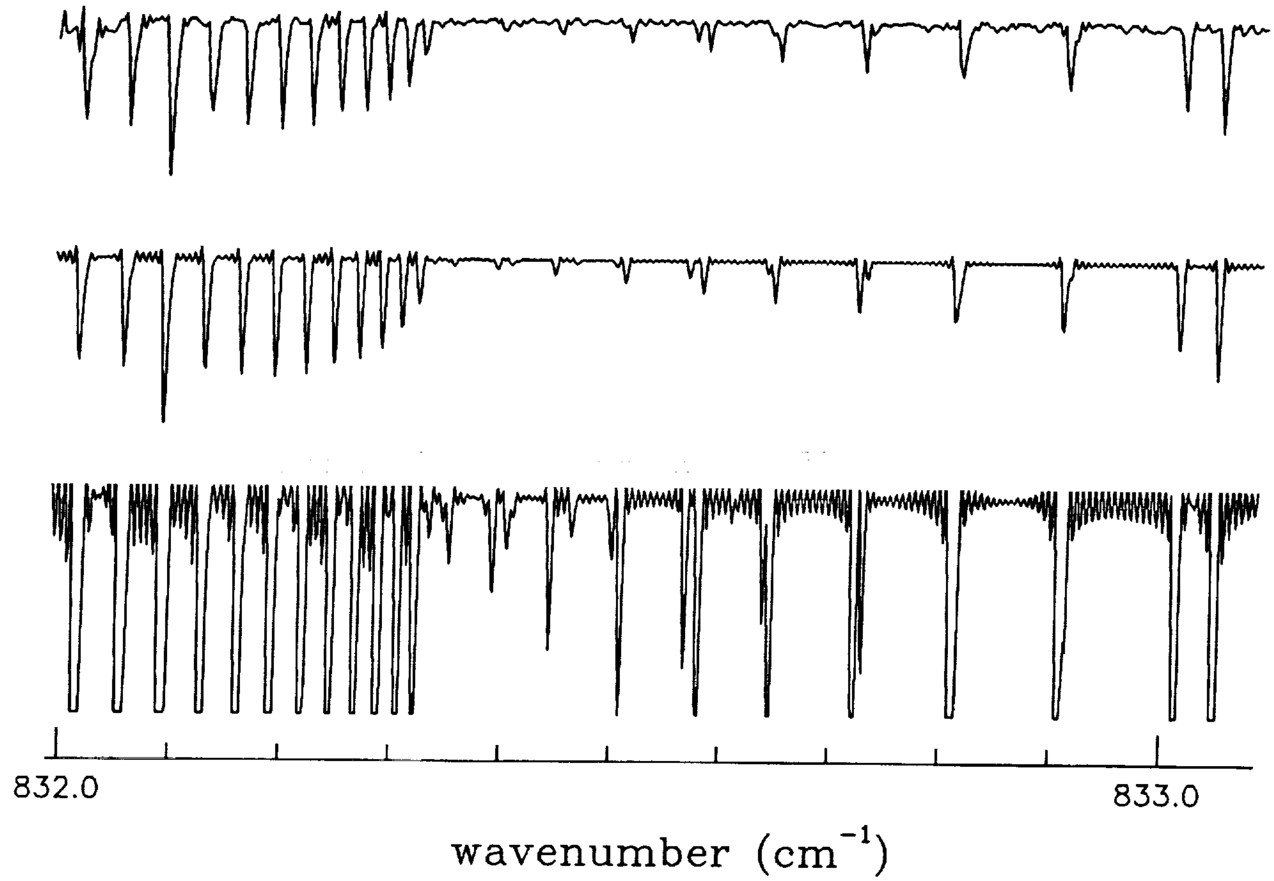
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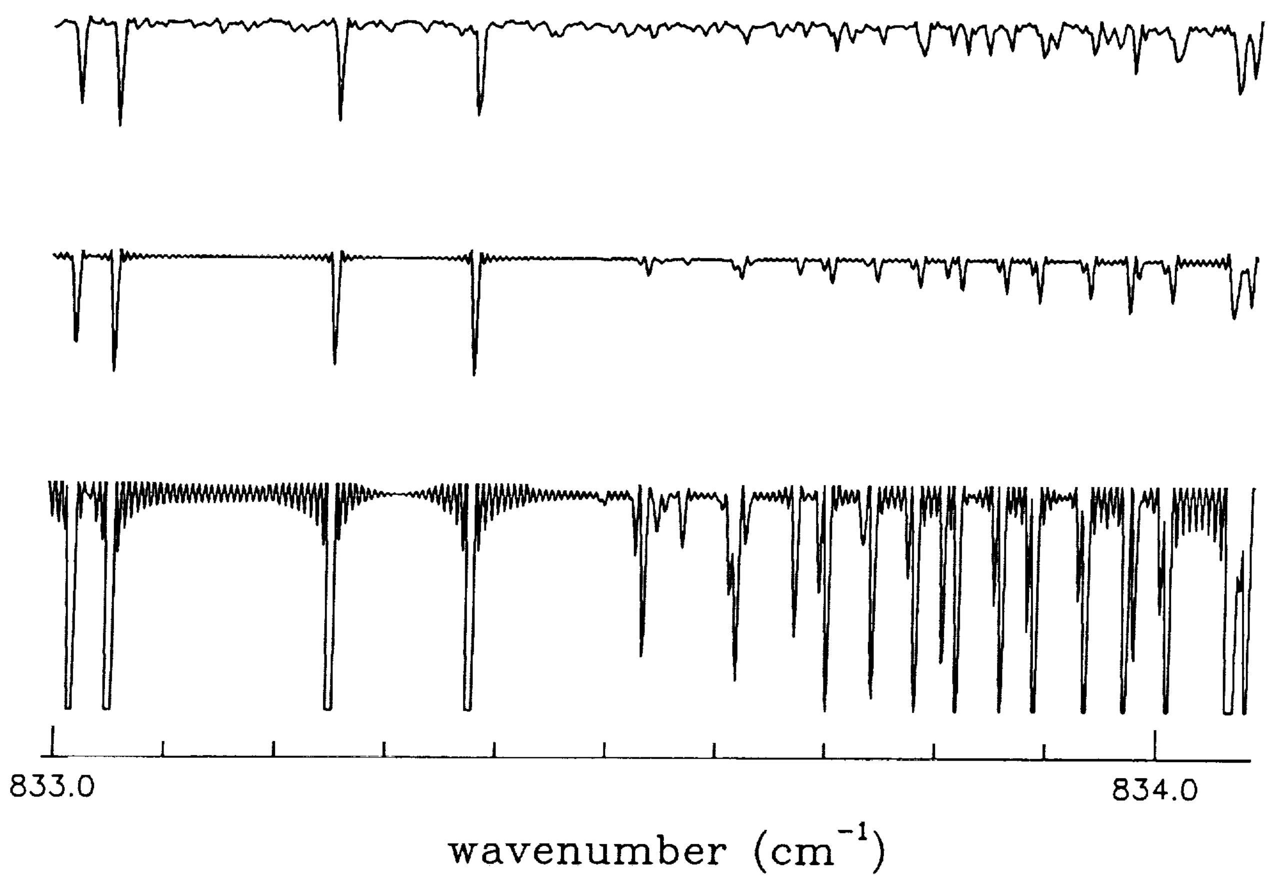
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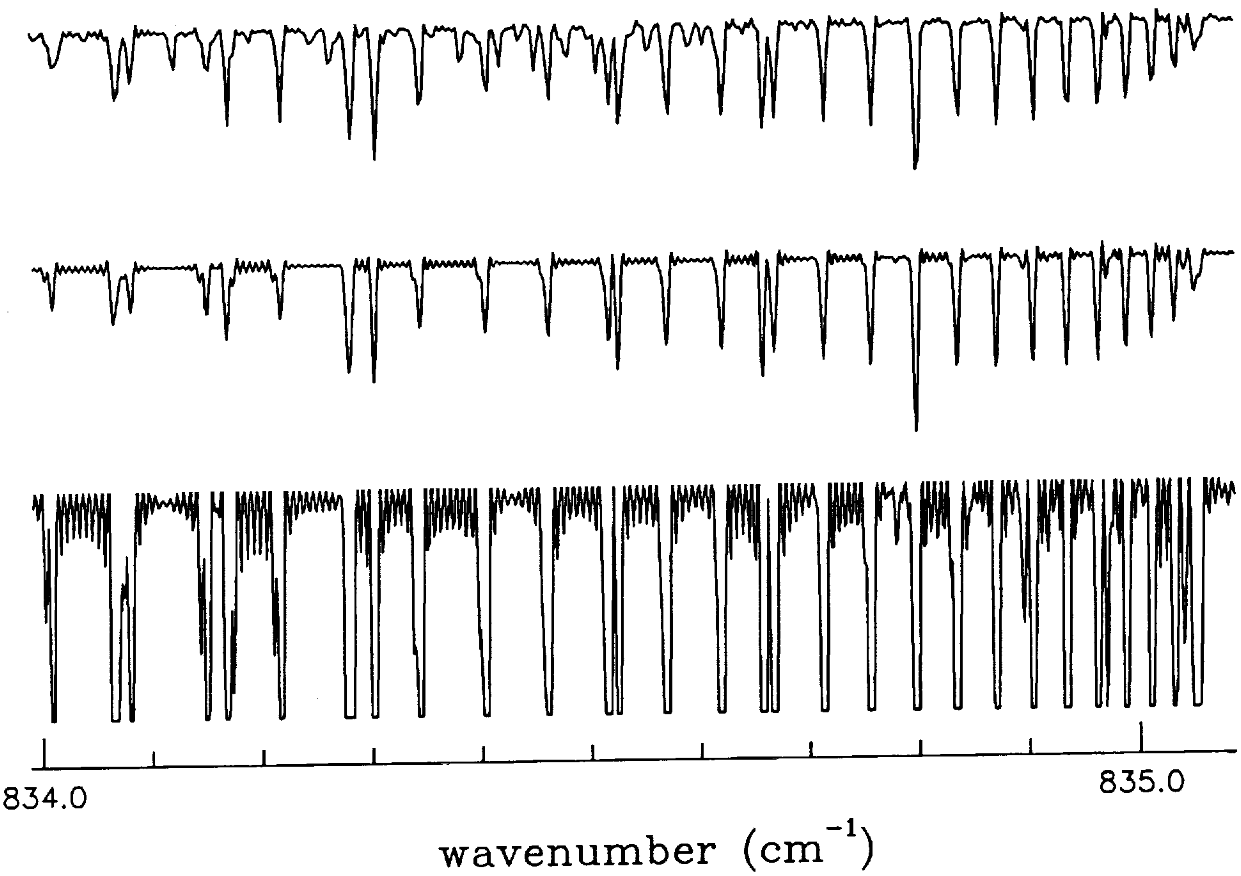
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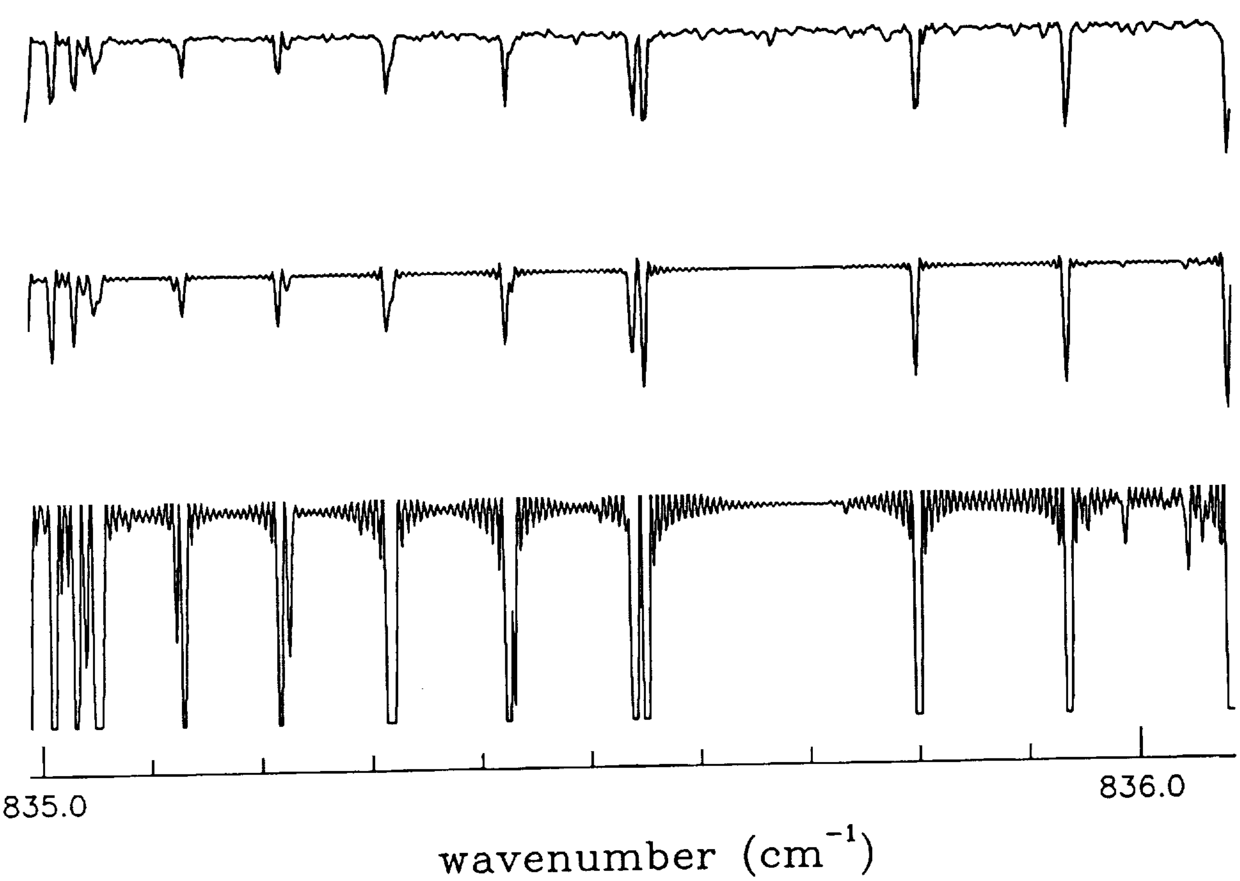
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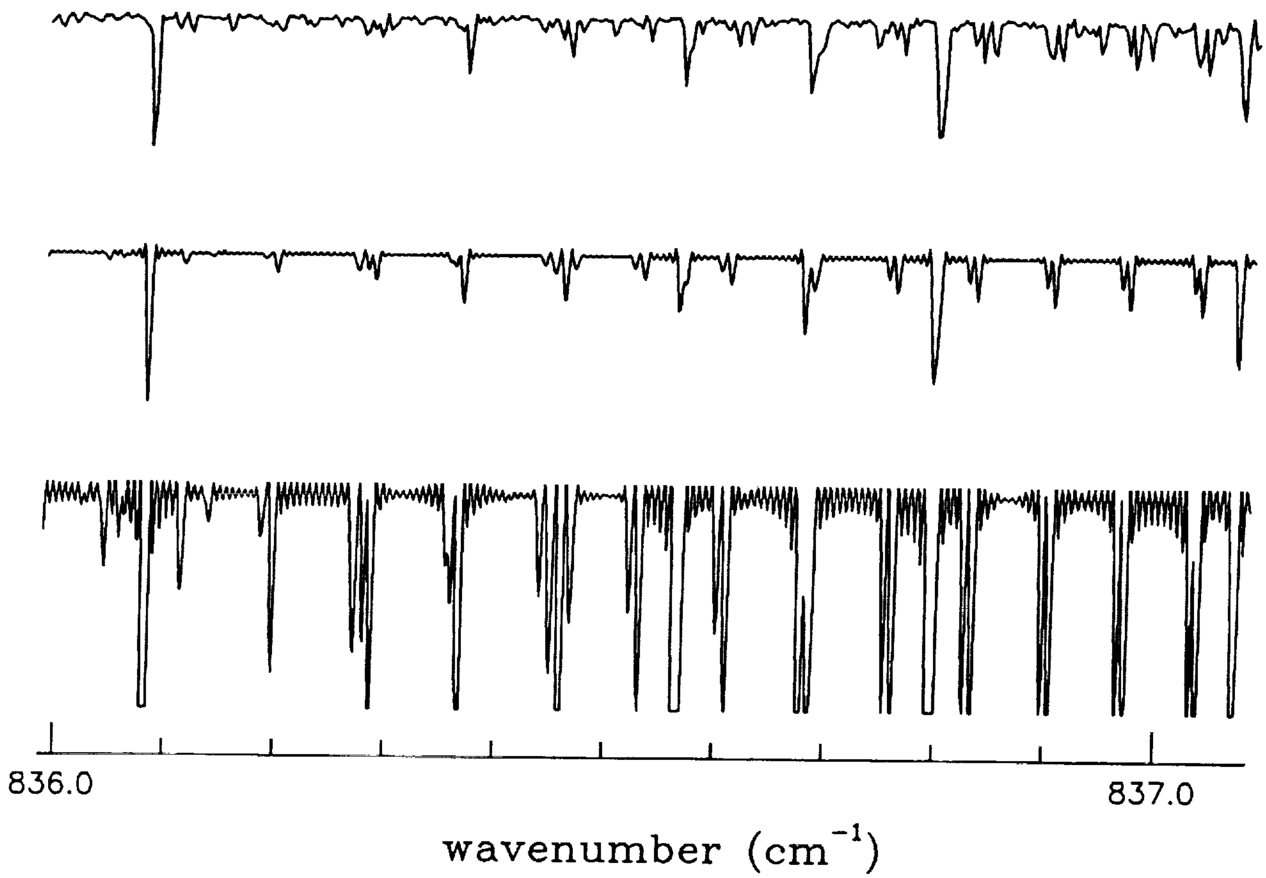
wavenumber (cm⁻¹)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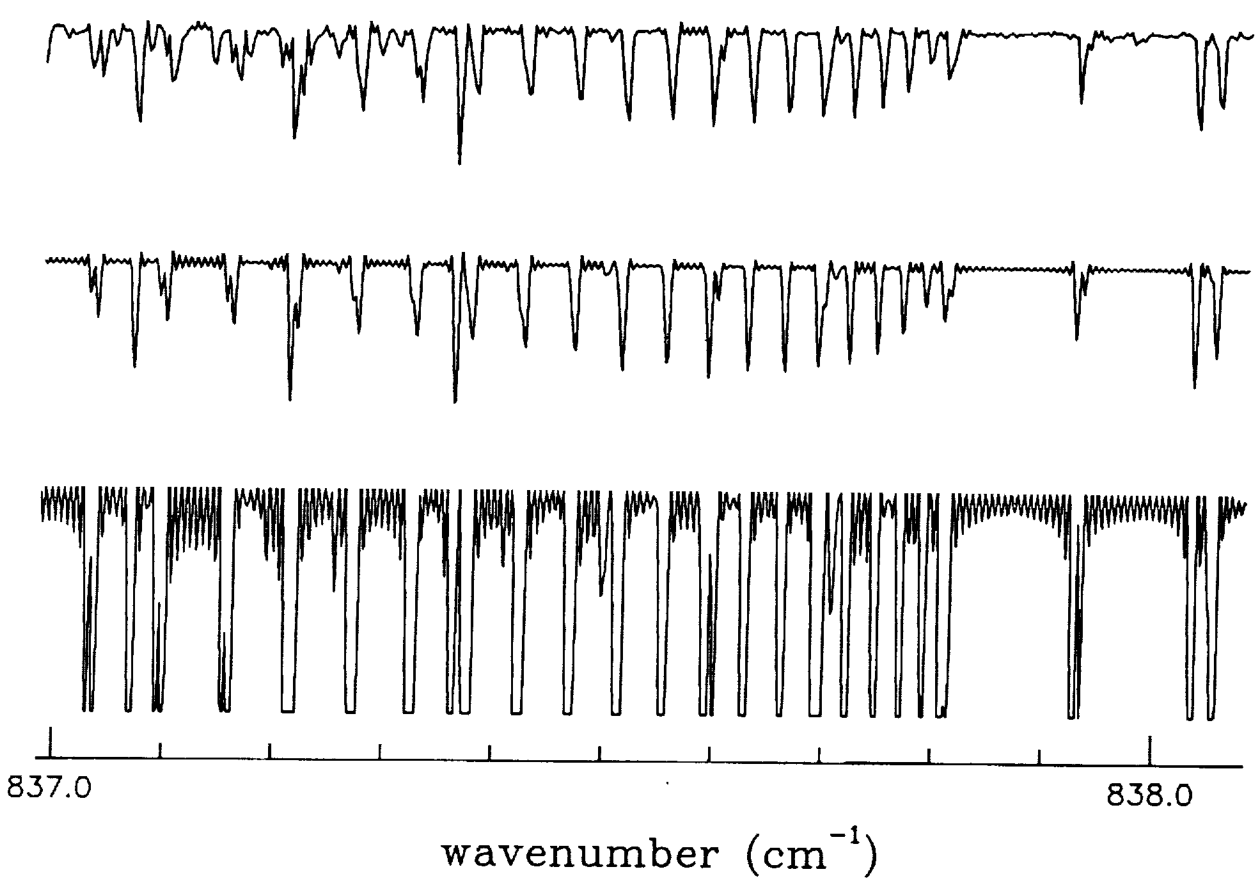
wavenumber (cm⁻¹)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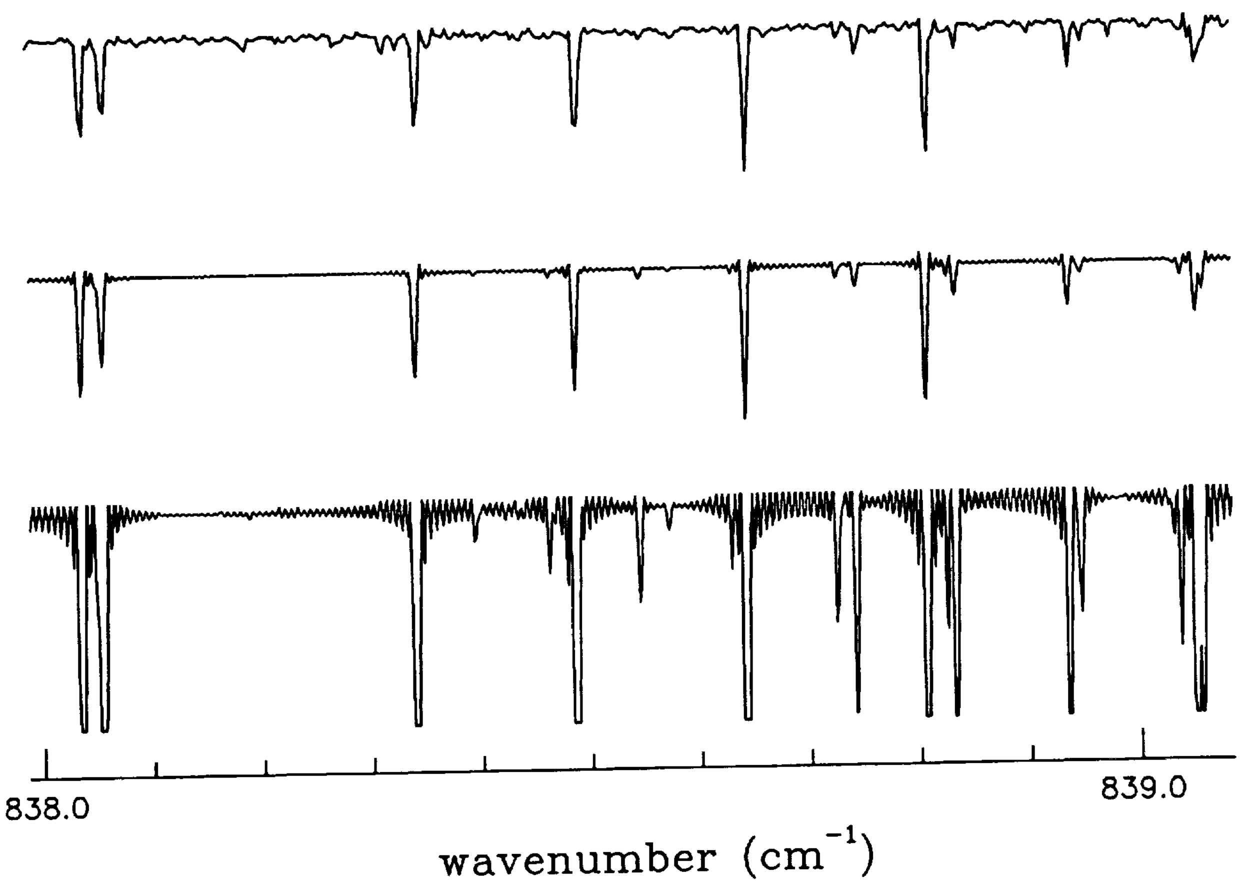
wavenumber (cm⁻¹)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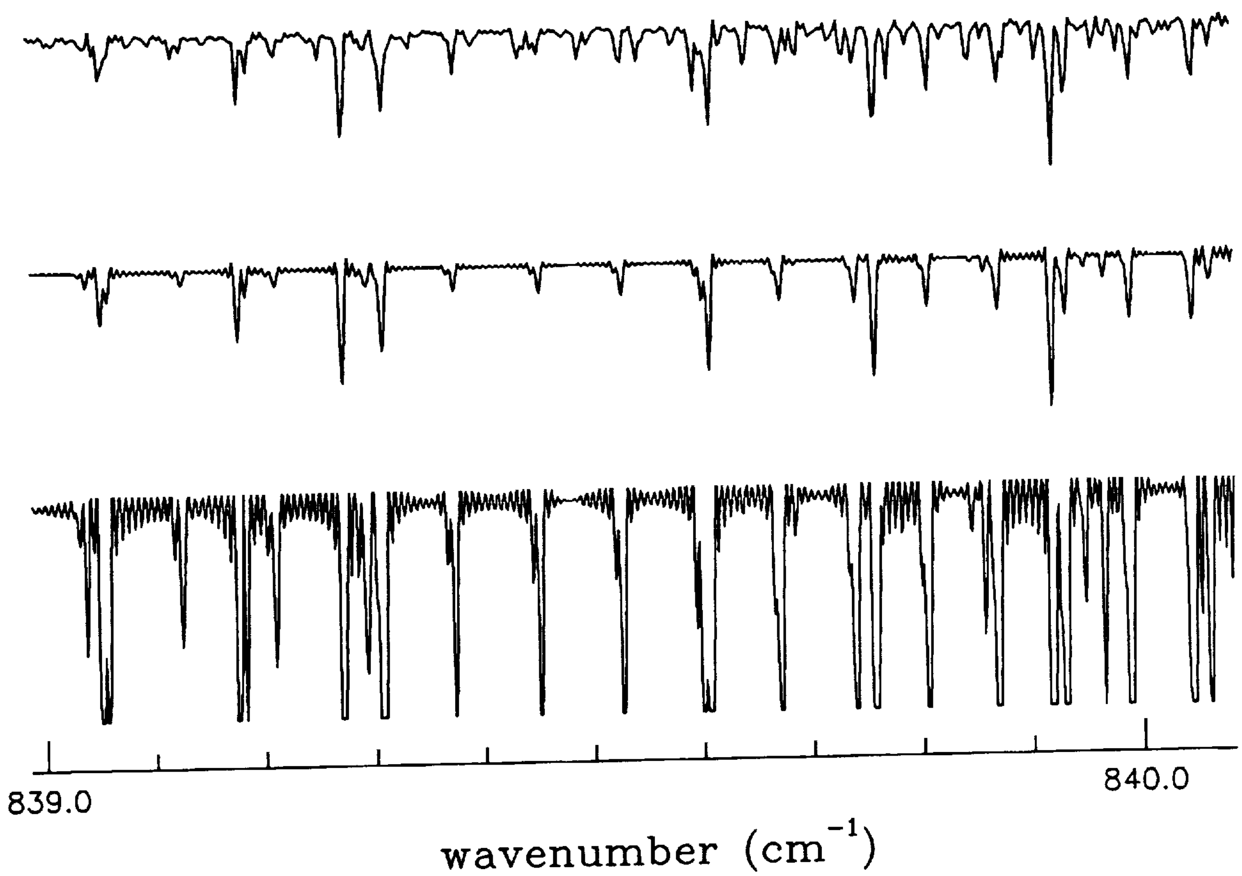
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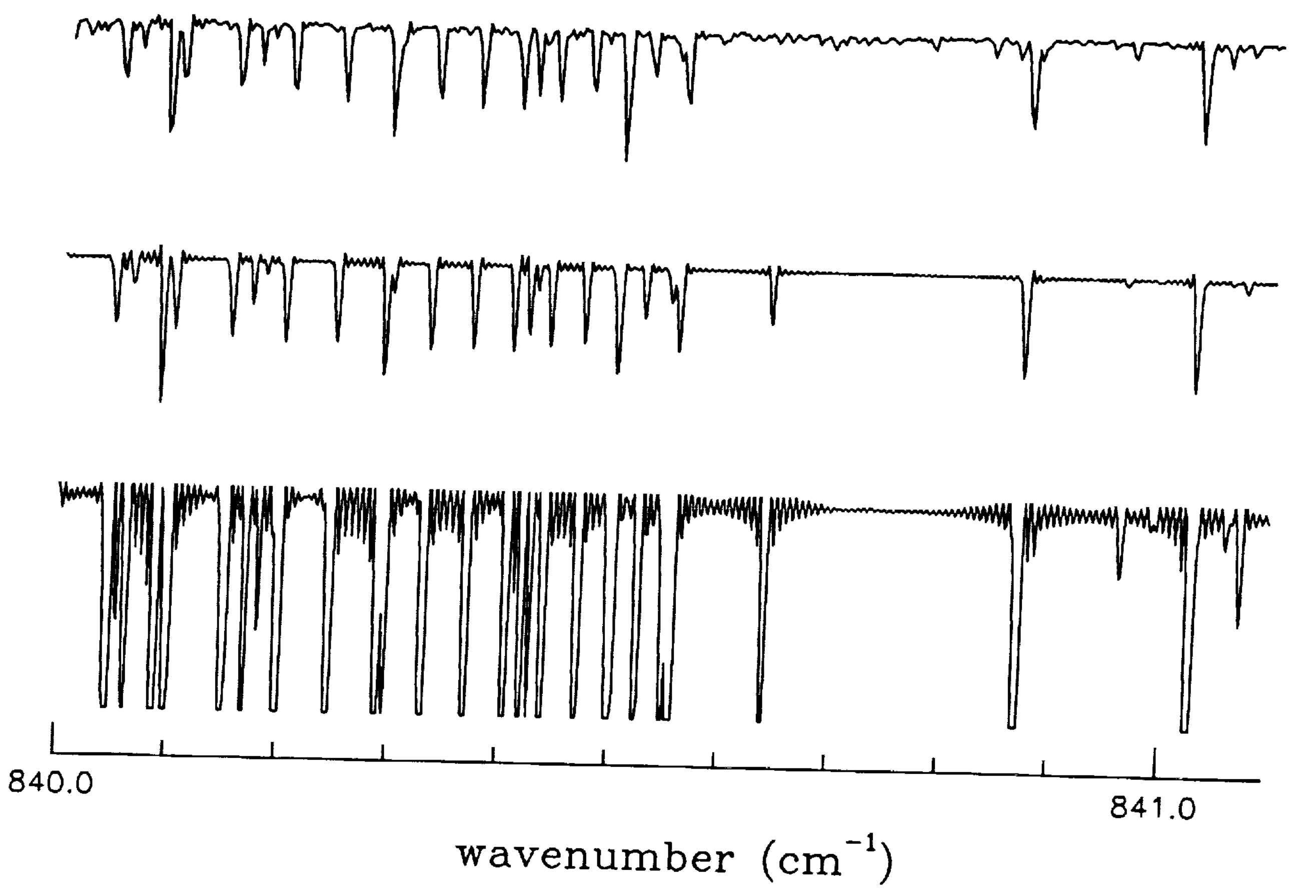
wavenumber (cm⁻¹)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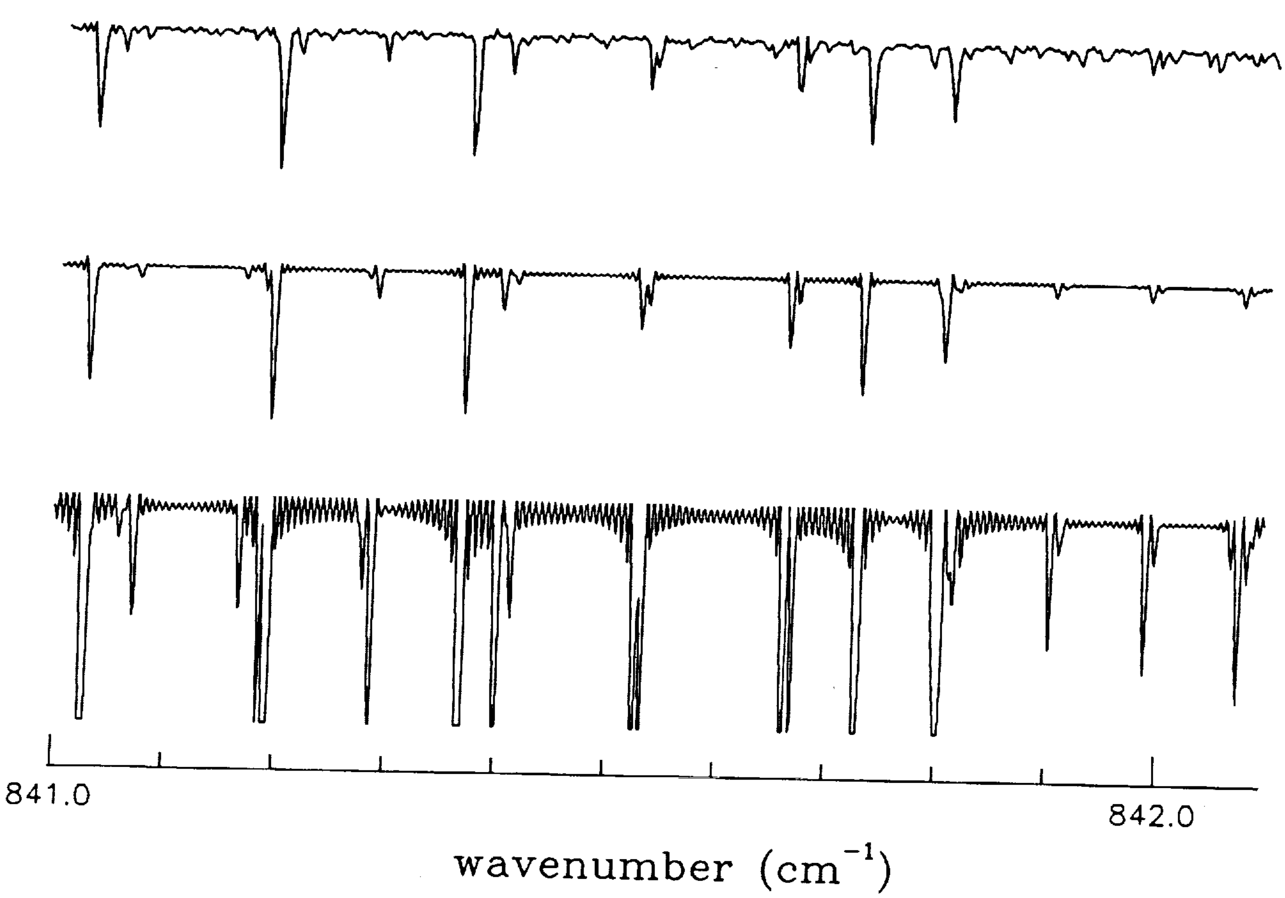
wavenumber (cm⁻¹)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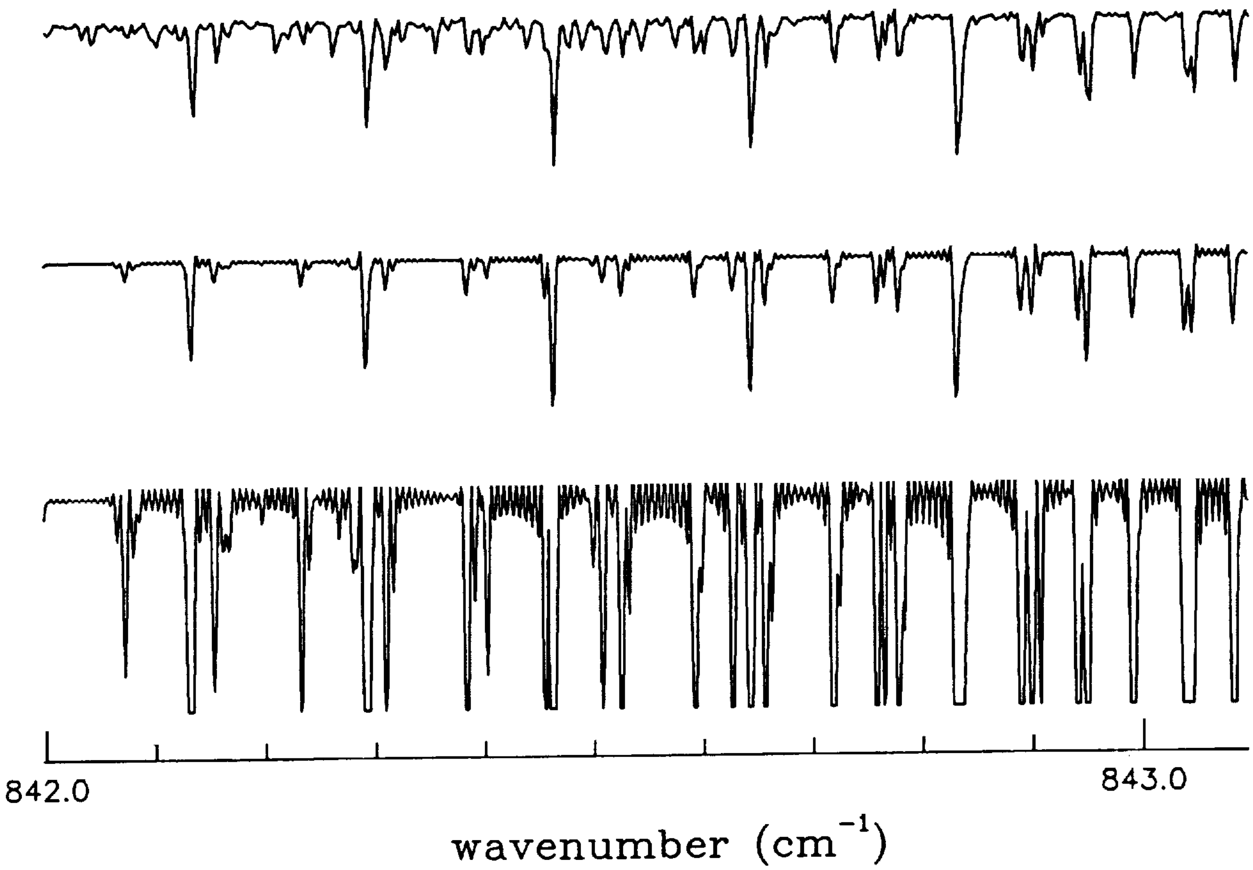
wavenumber (cm⁻¹)



842.0
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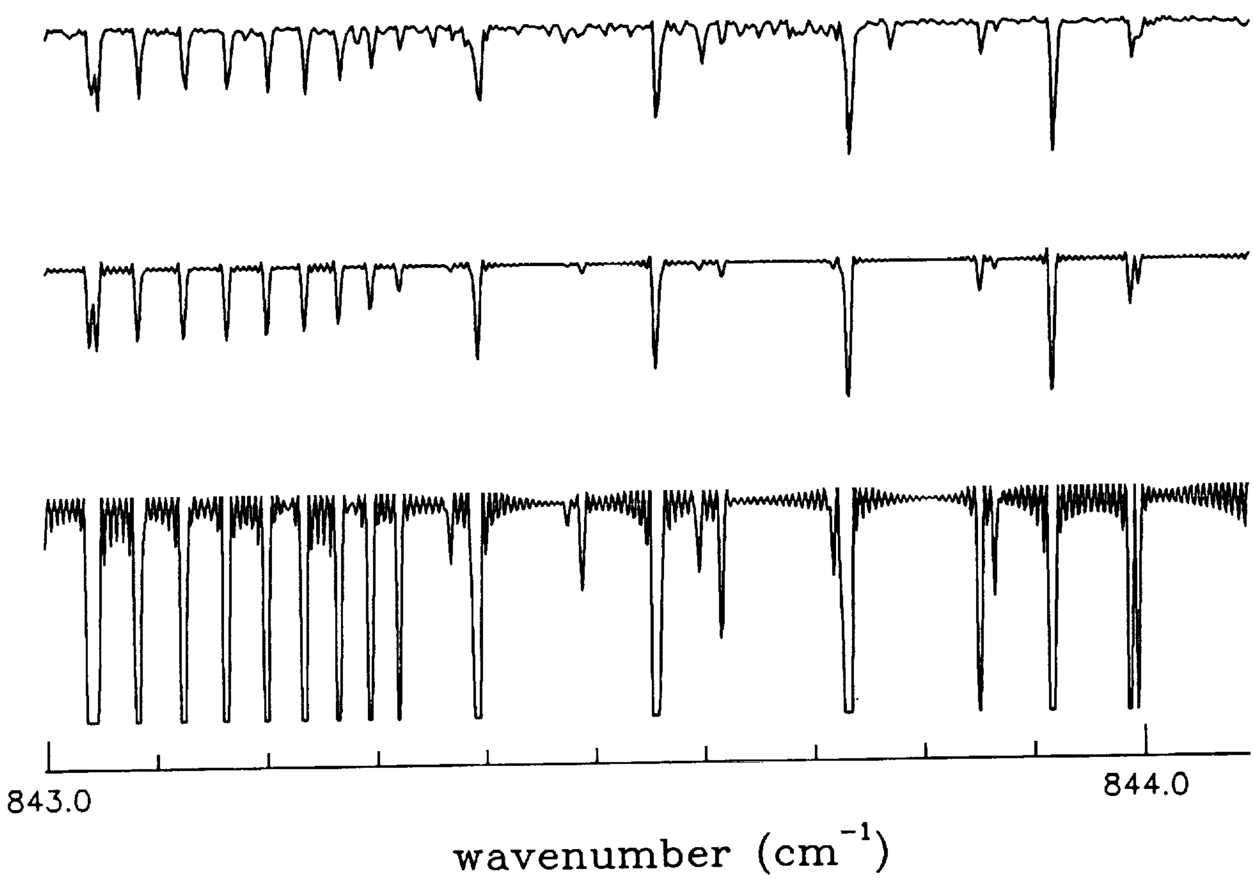
wavenumber (cm^{-1})



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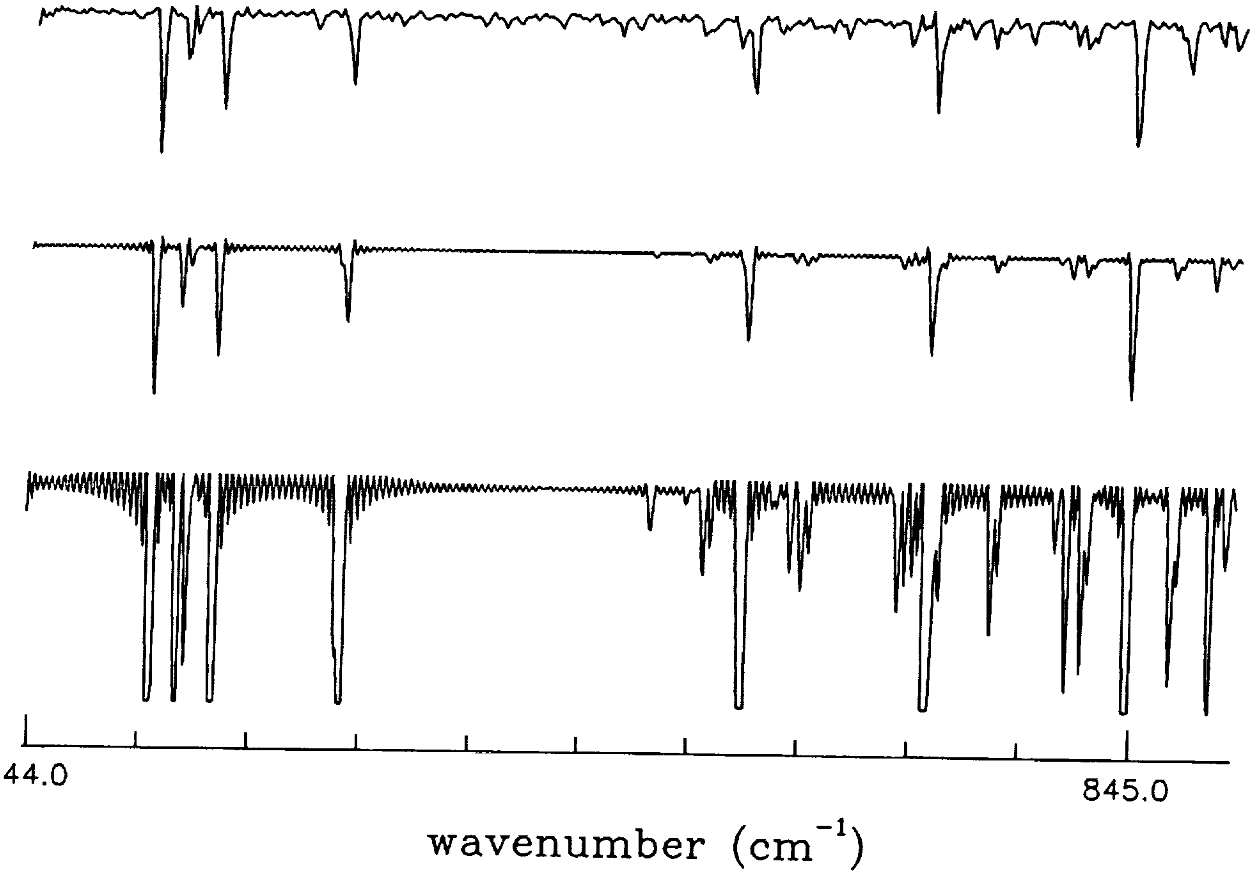
wavenumber (cm^{-1})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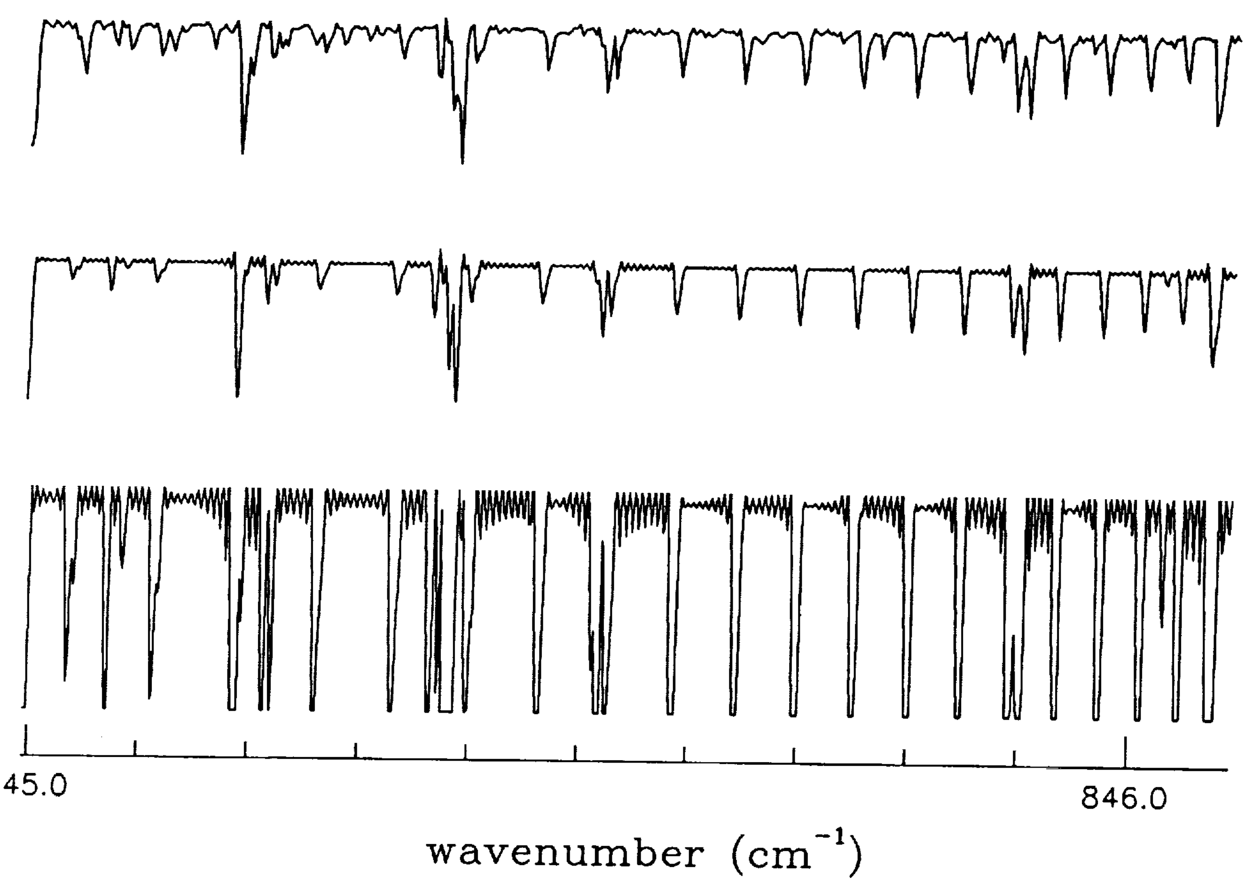
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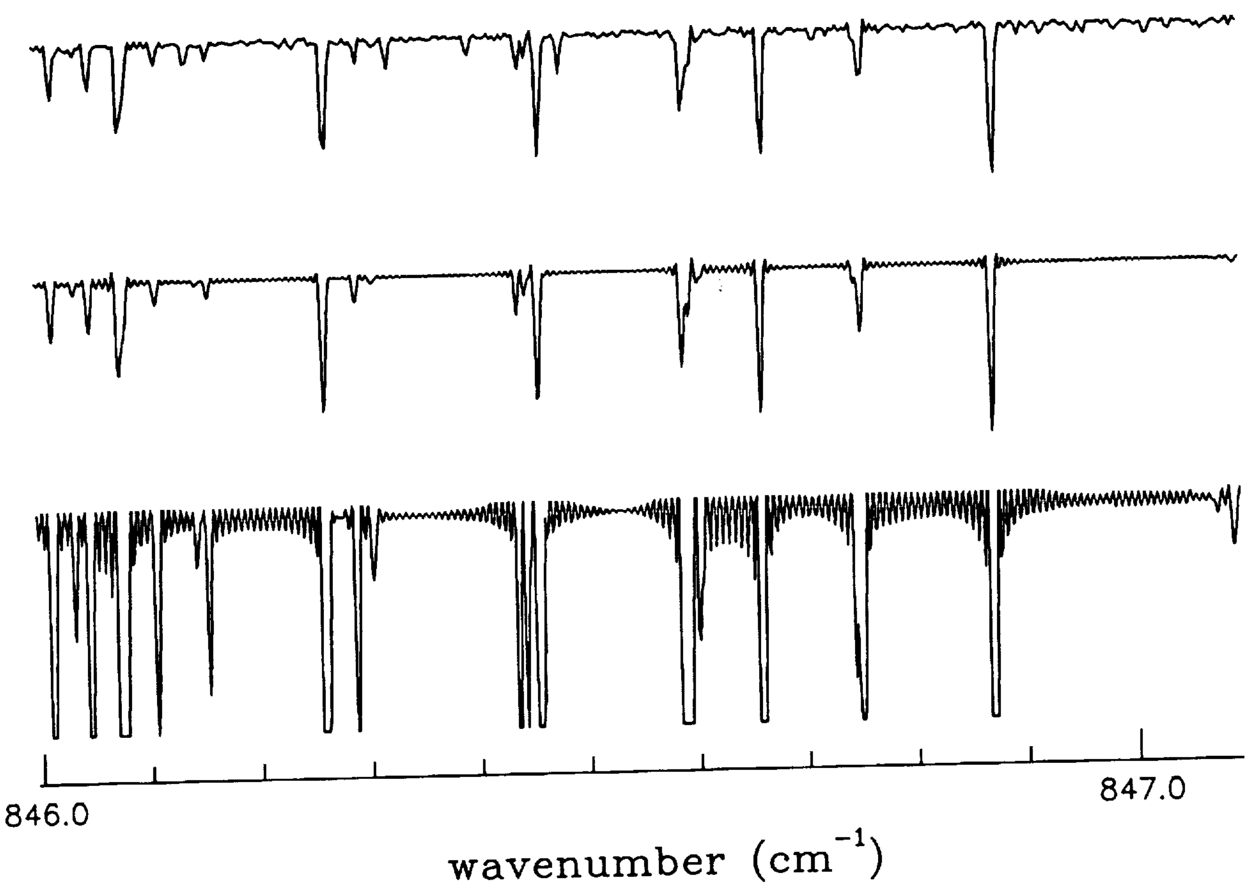
wavenumber (cm^{-1})



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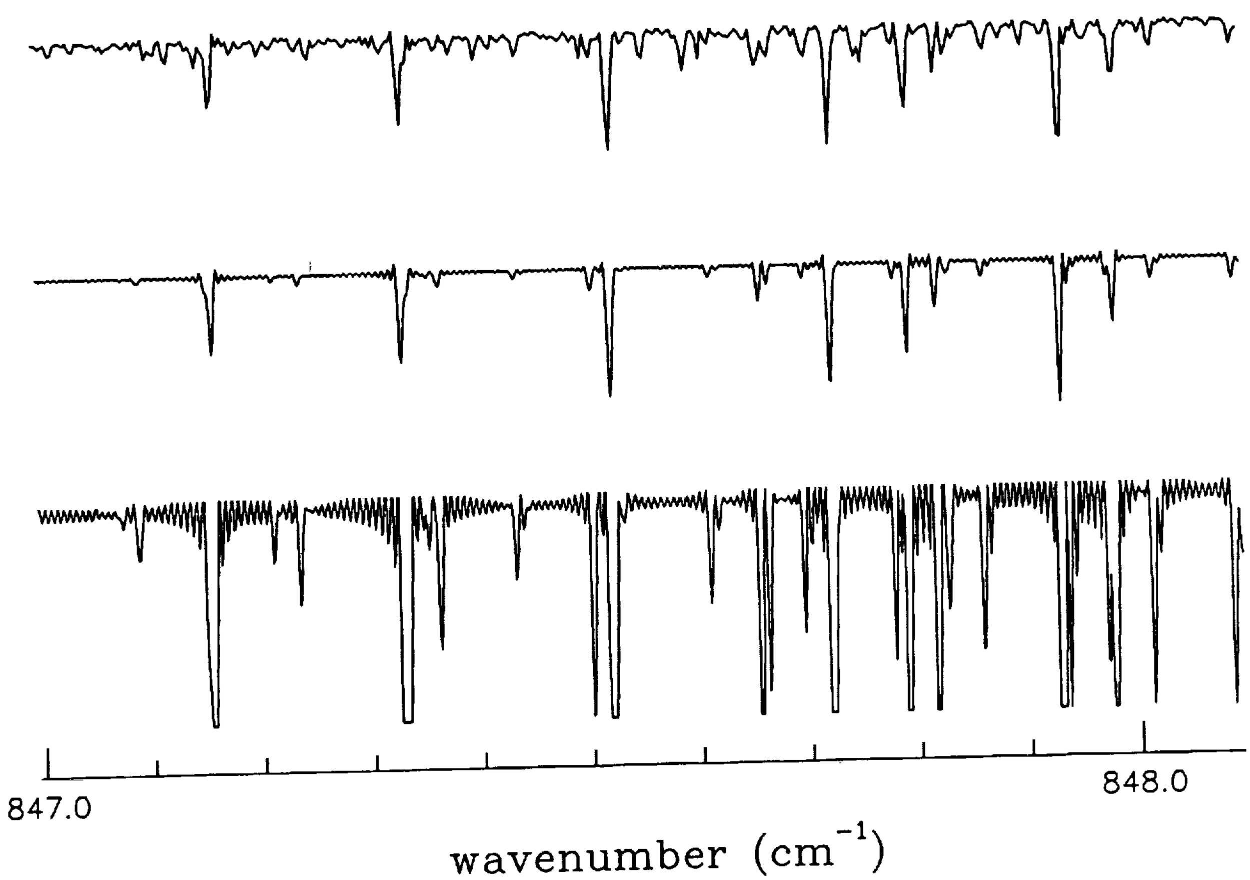
wavenumber (cm^{-1})



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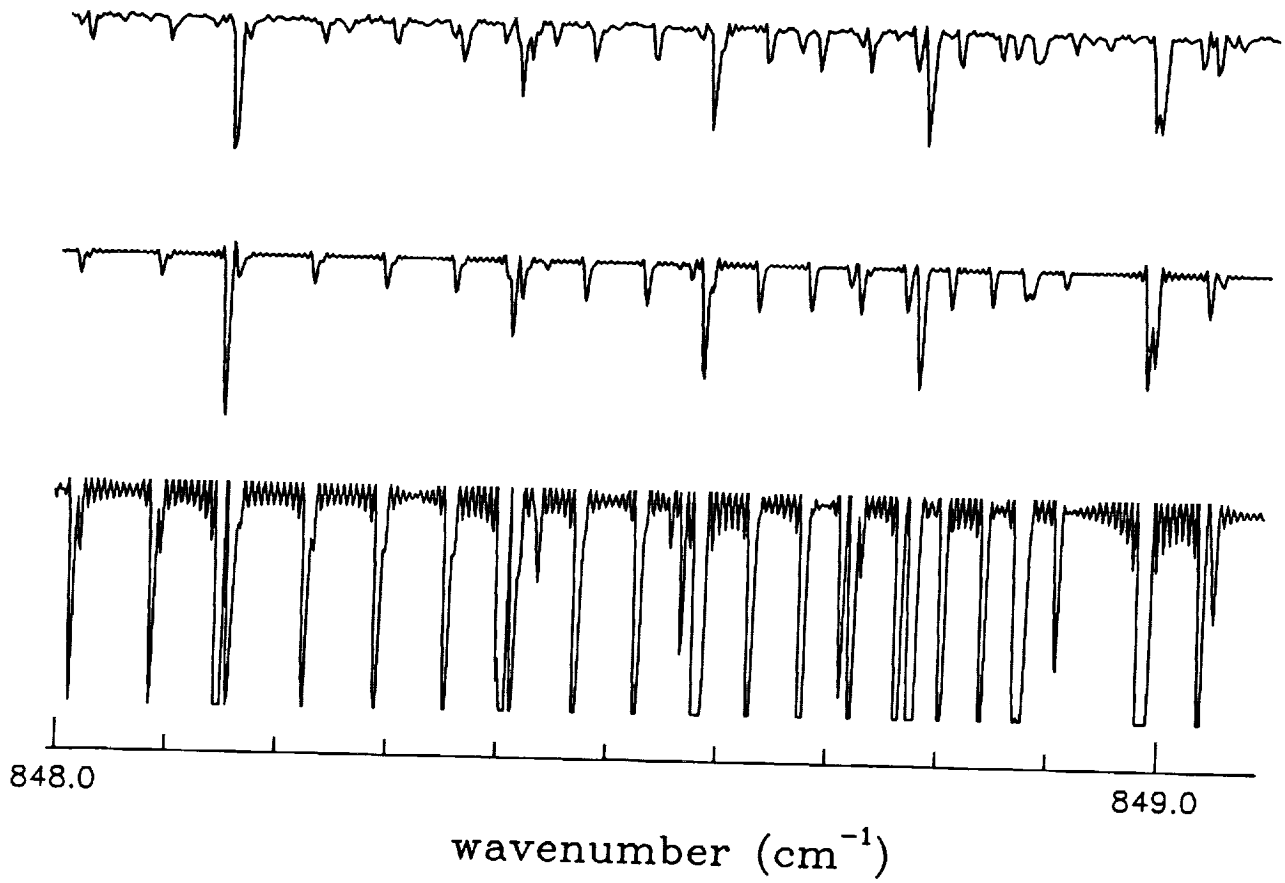
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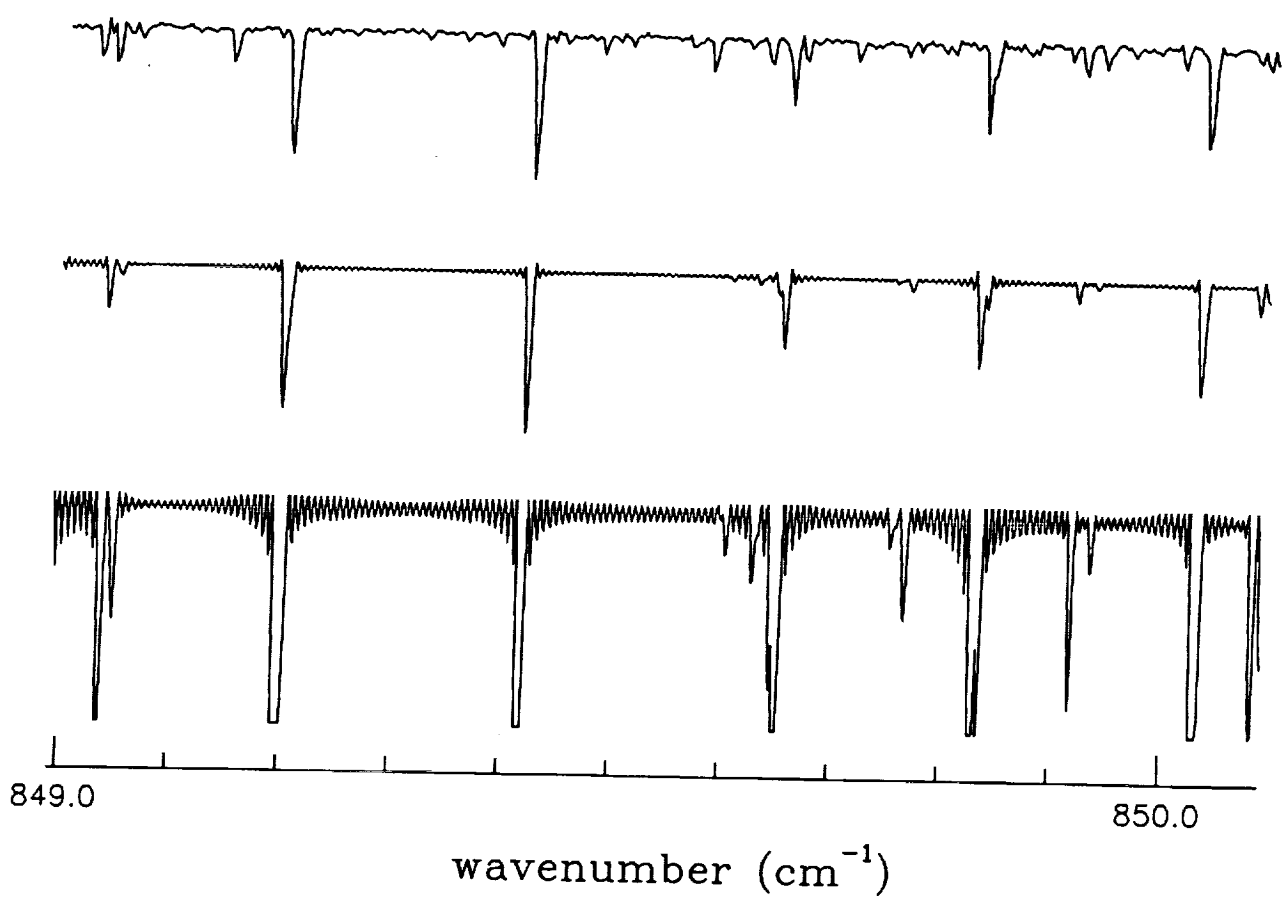
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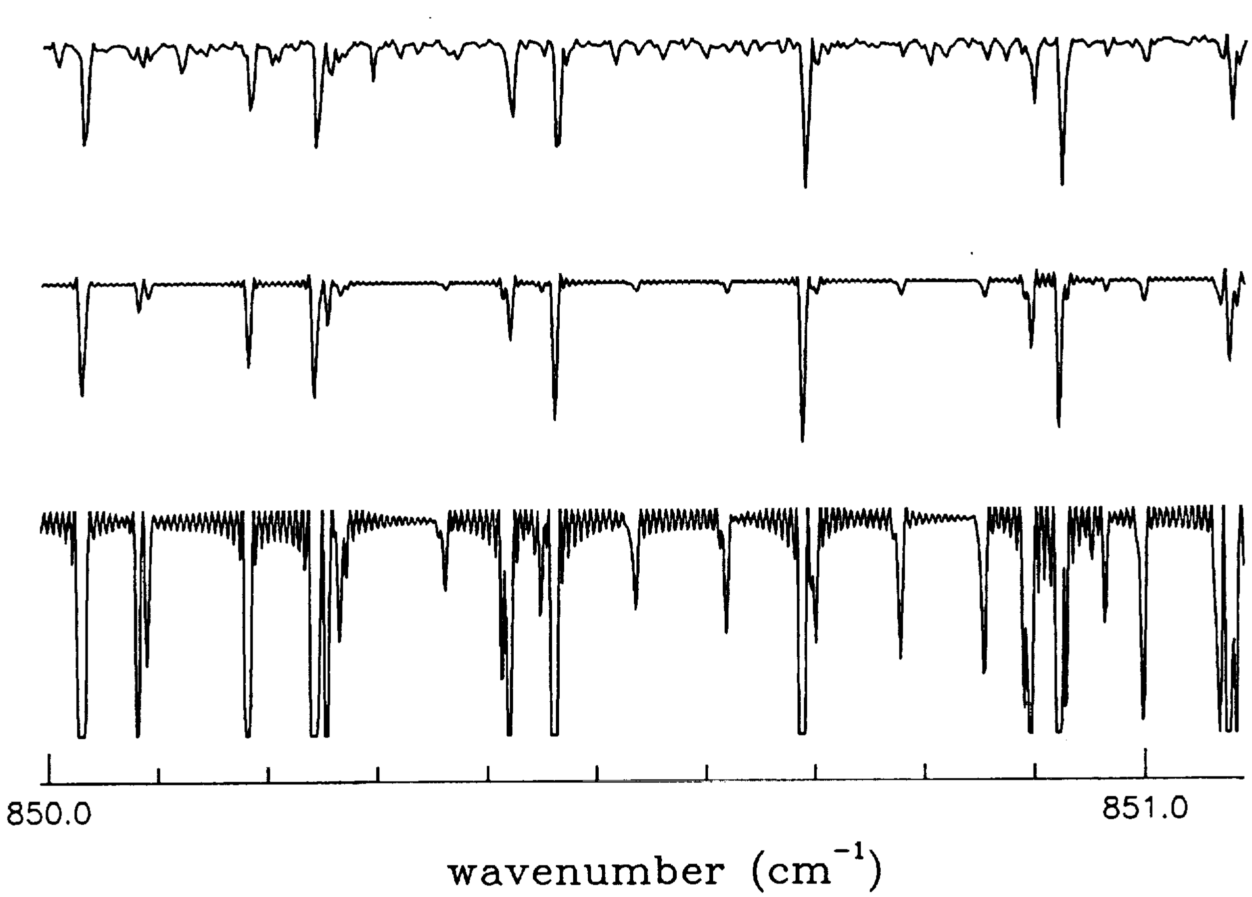
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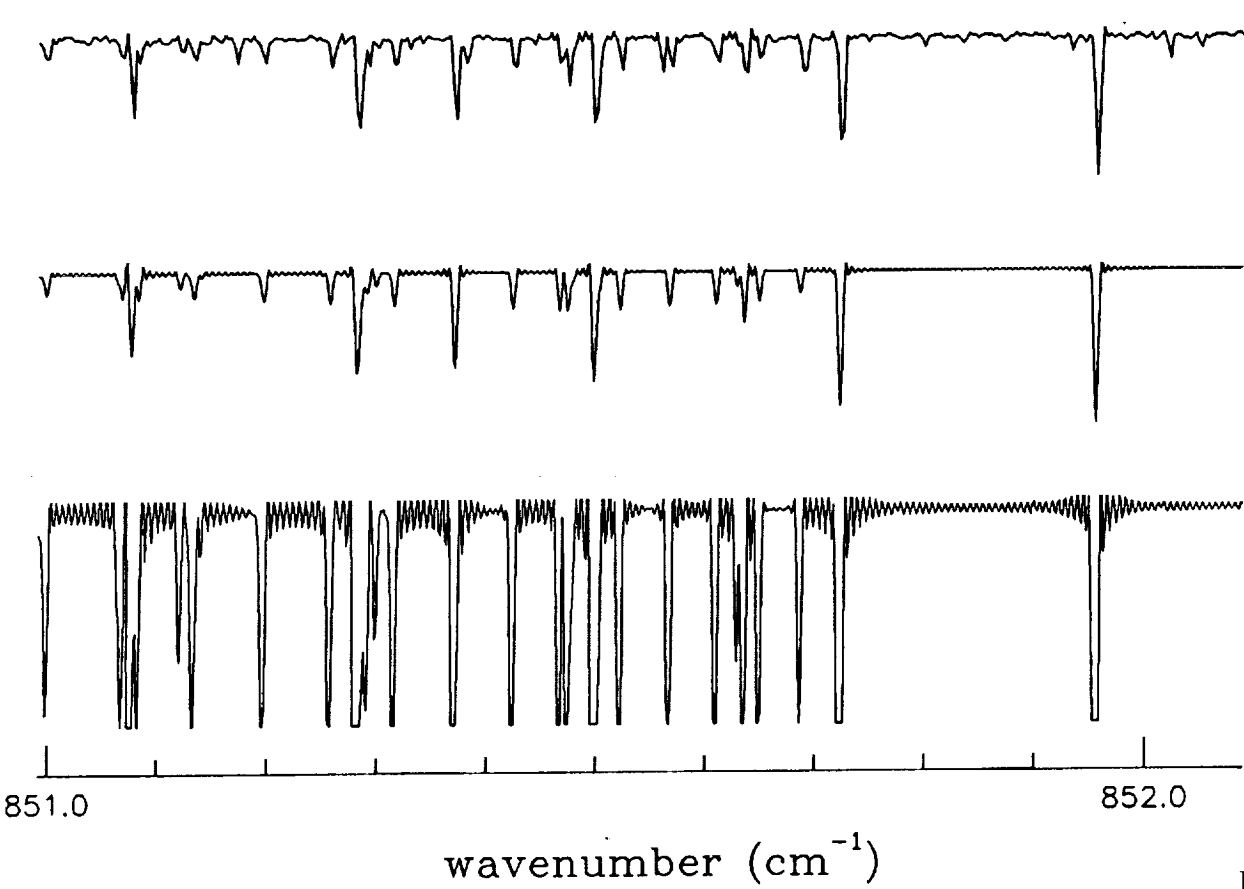
wavenumber (cm^-1)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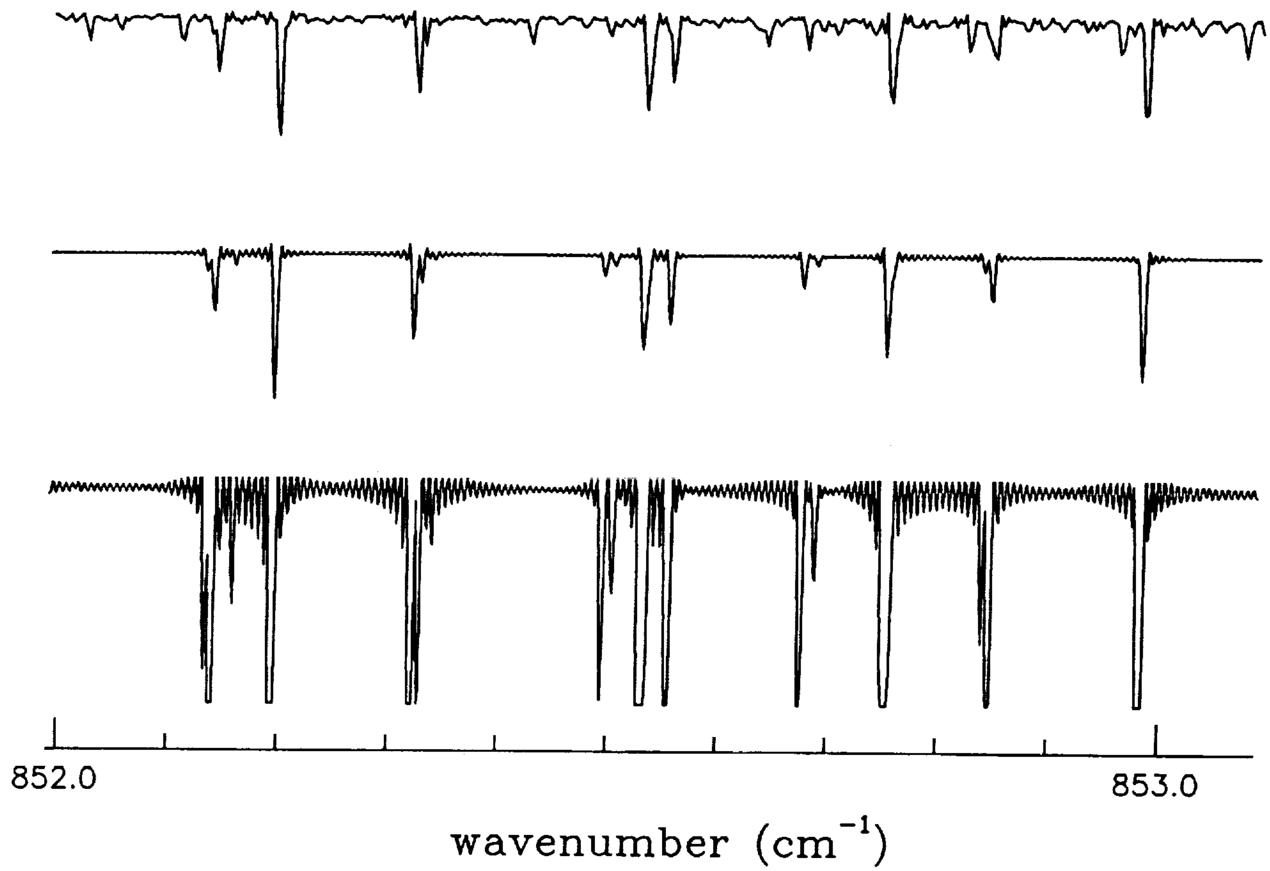
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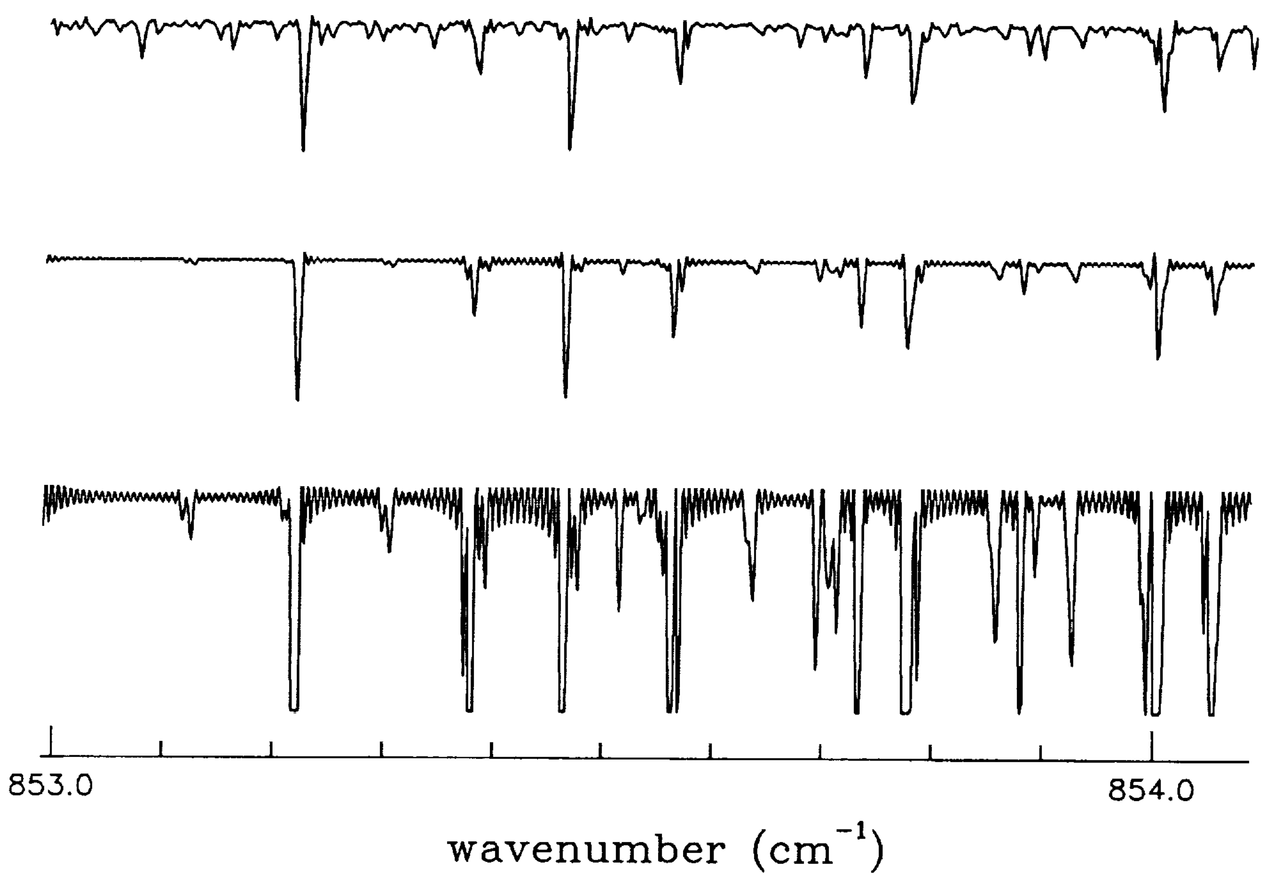
wavenumber (cm^{-1})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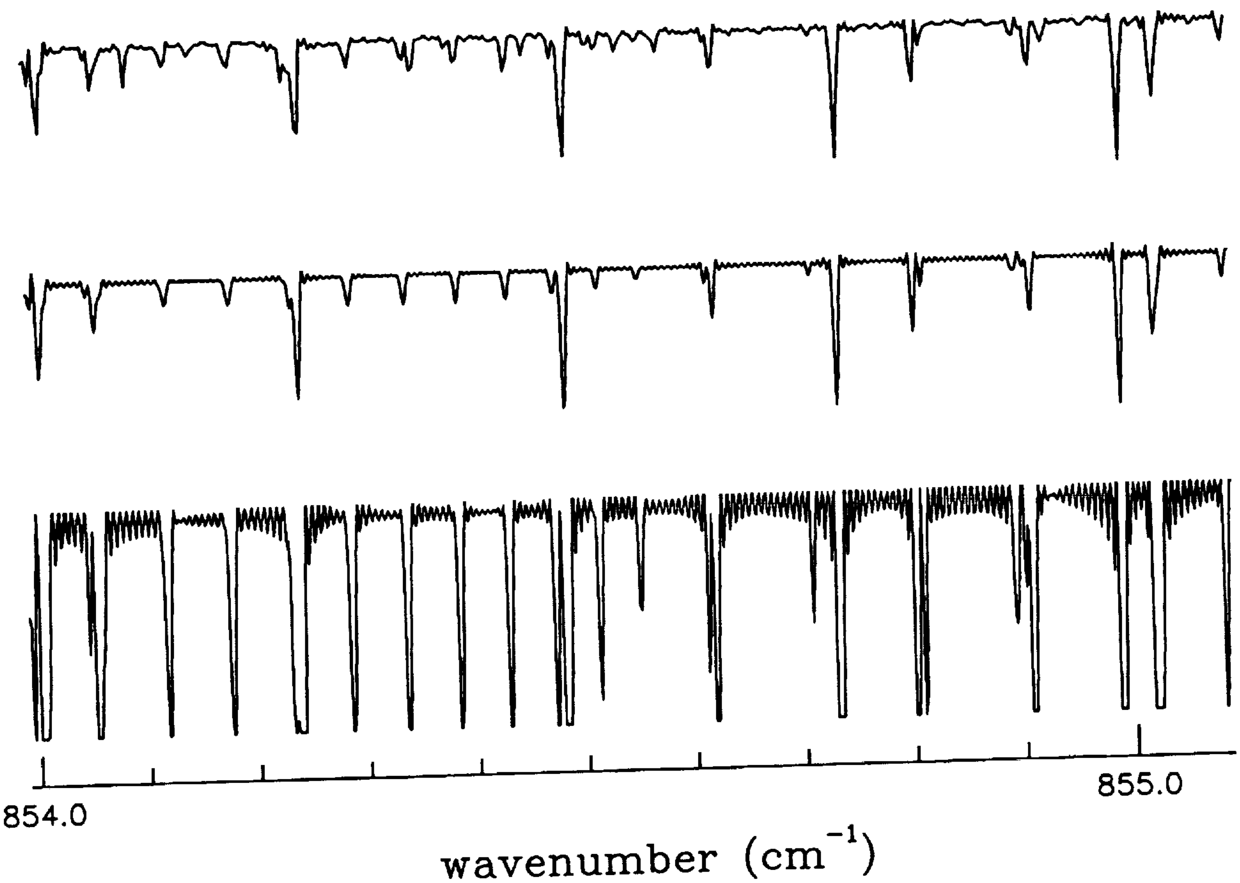
wavenumber (cm^{-1})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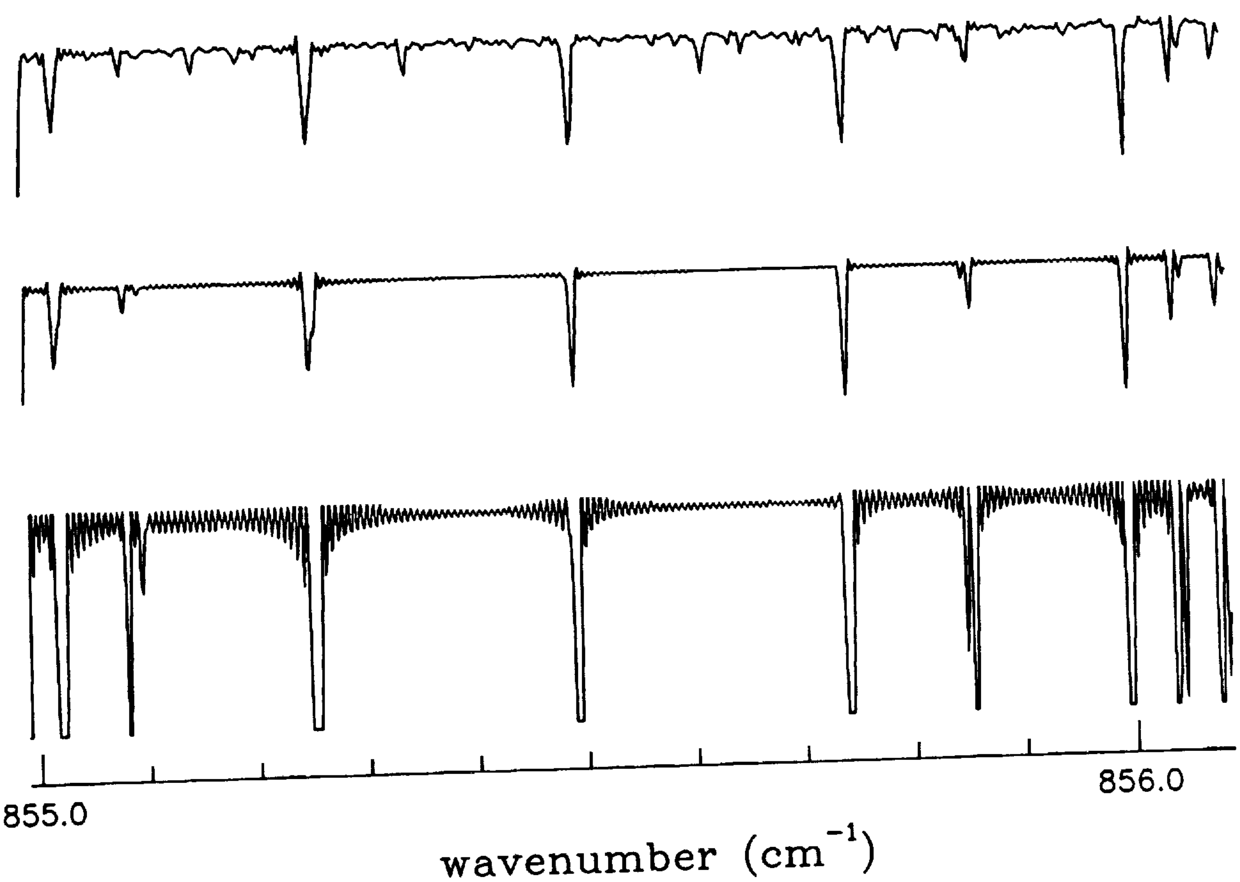
wavenumber (cm⁻¹)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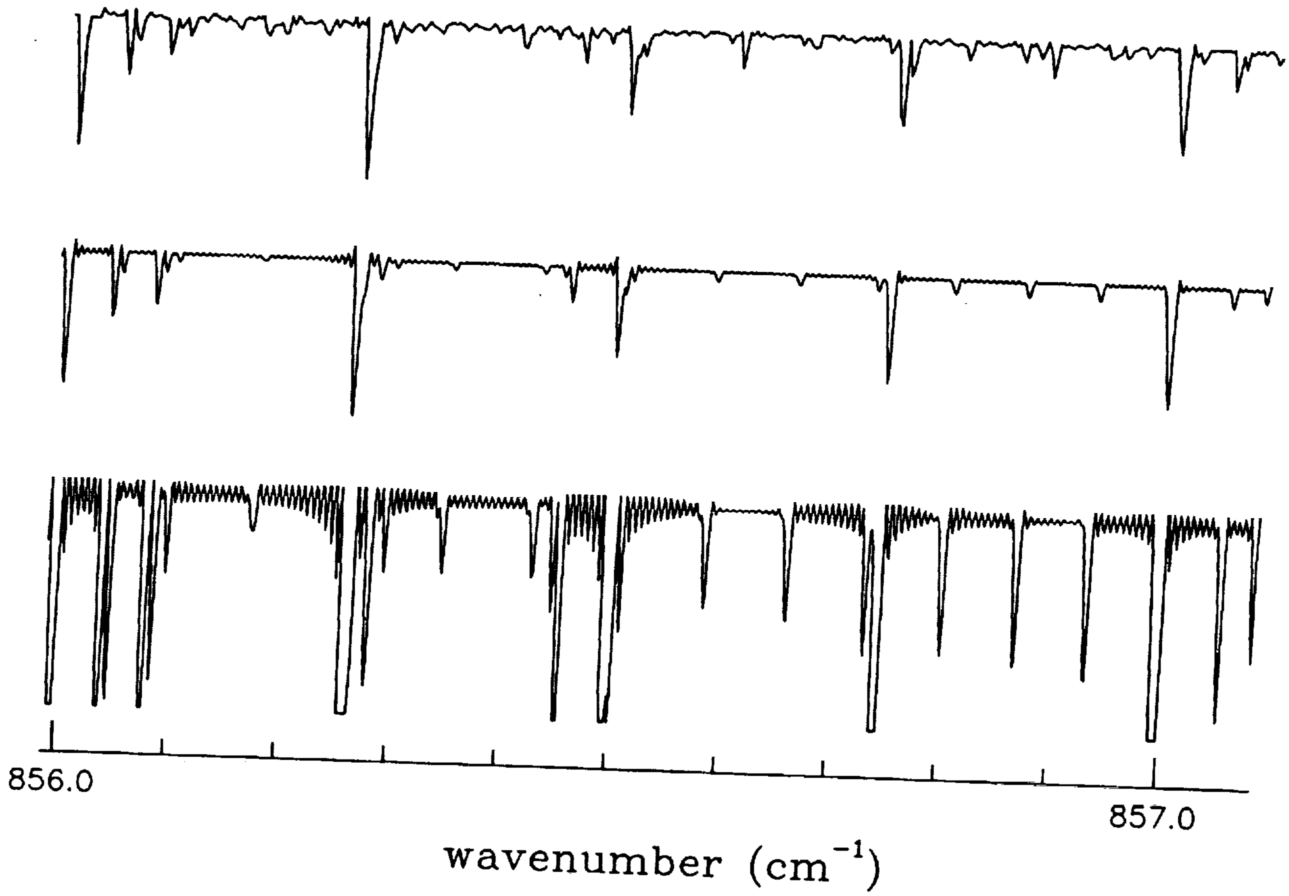
wavenumber (cm⁻¹)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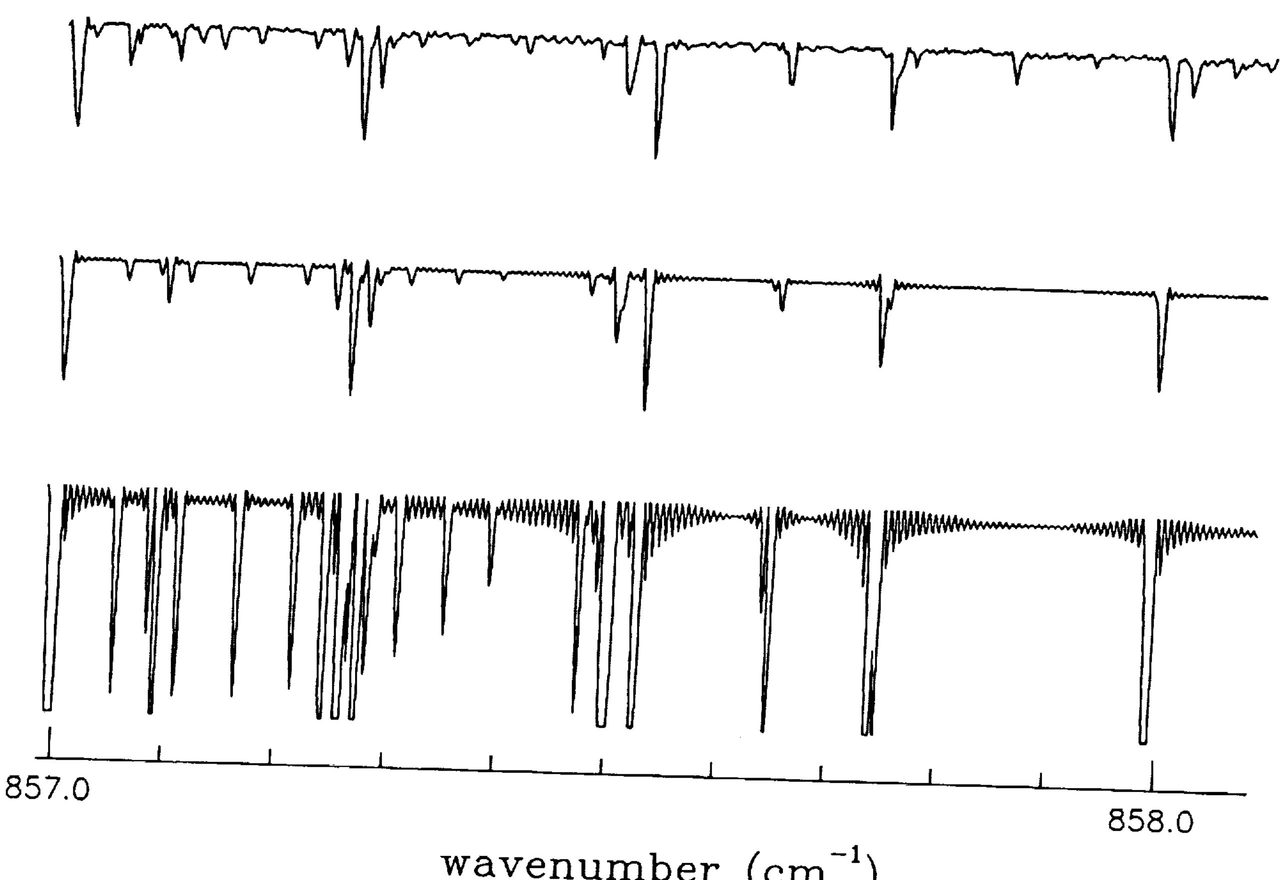
wavenumber (cm^{-1})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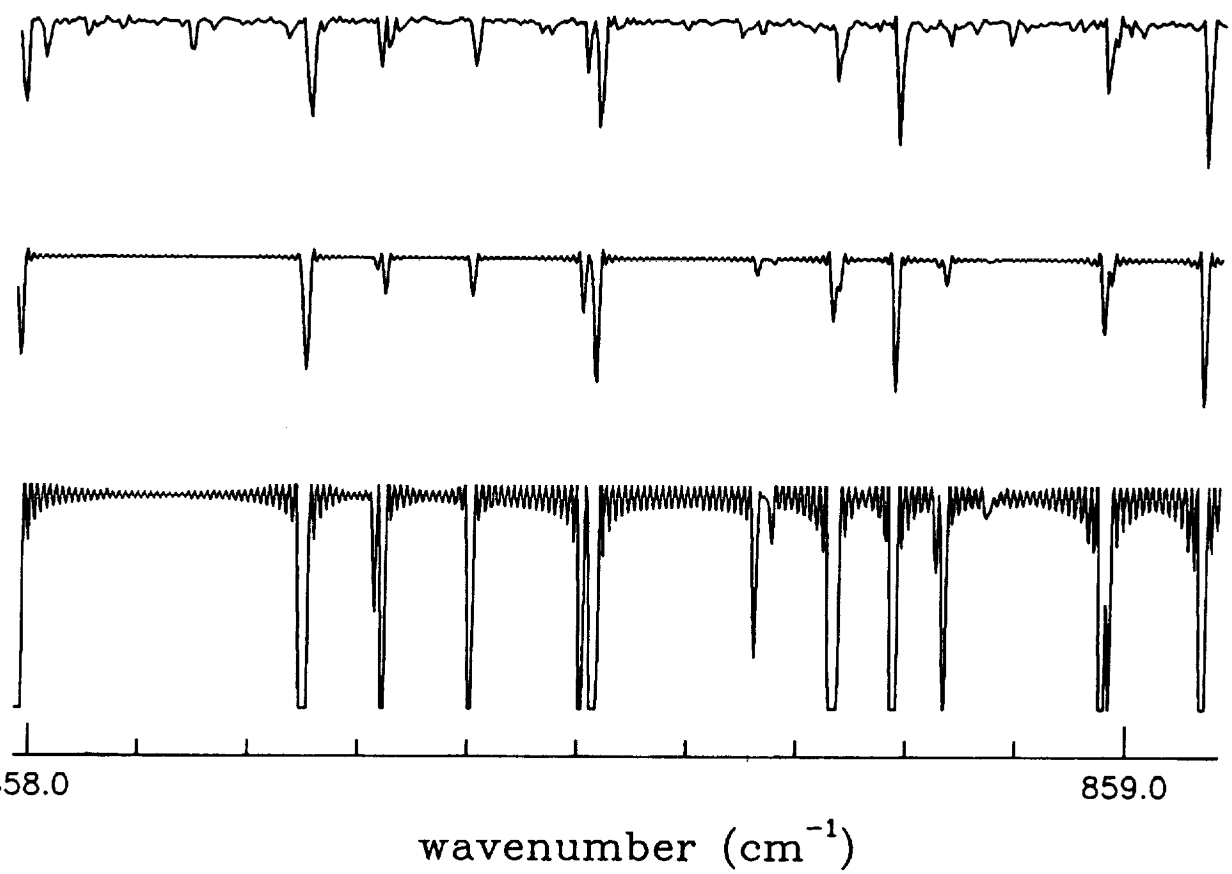
wavenumber (cm^{-1})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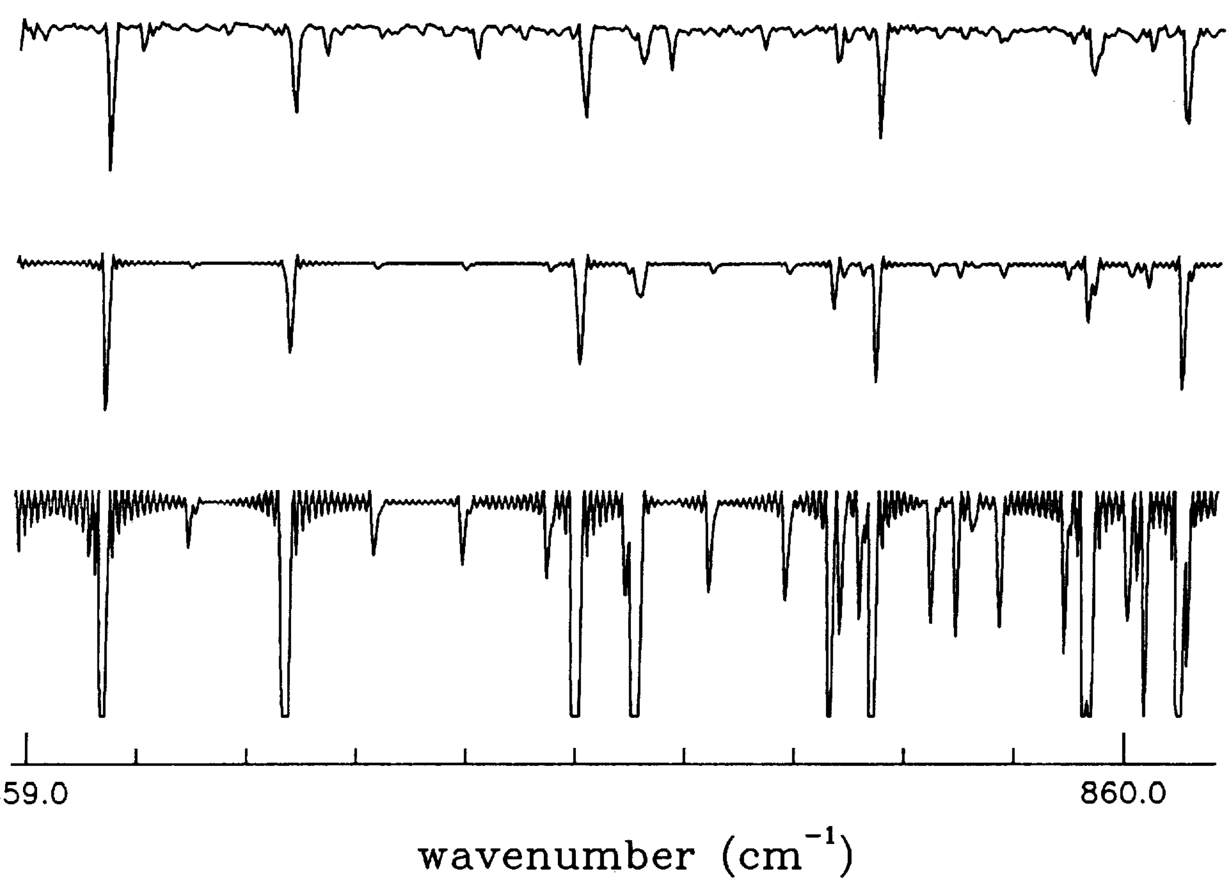
wavenumber (cm⁻¹)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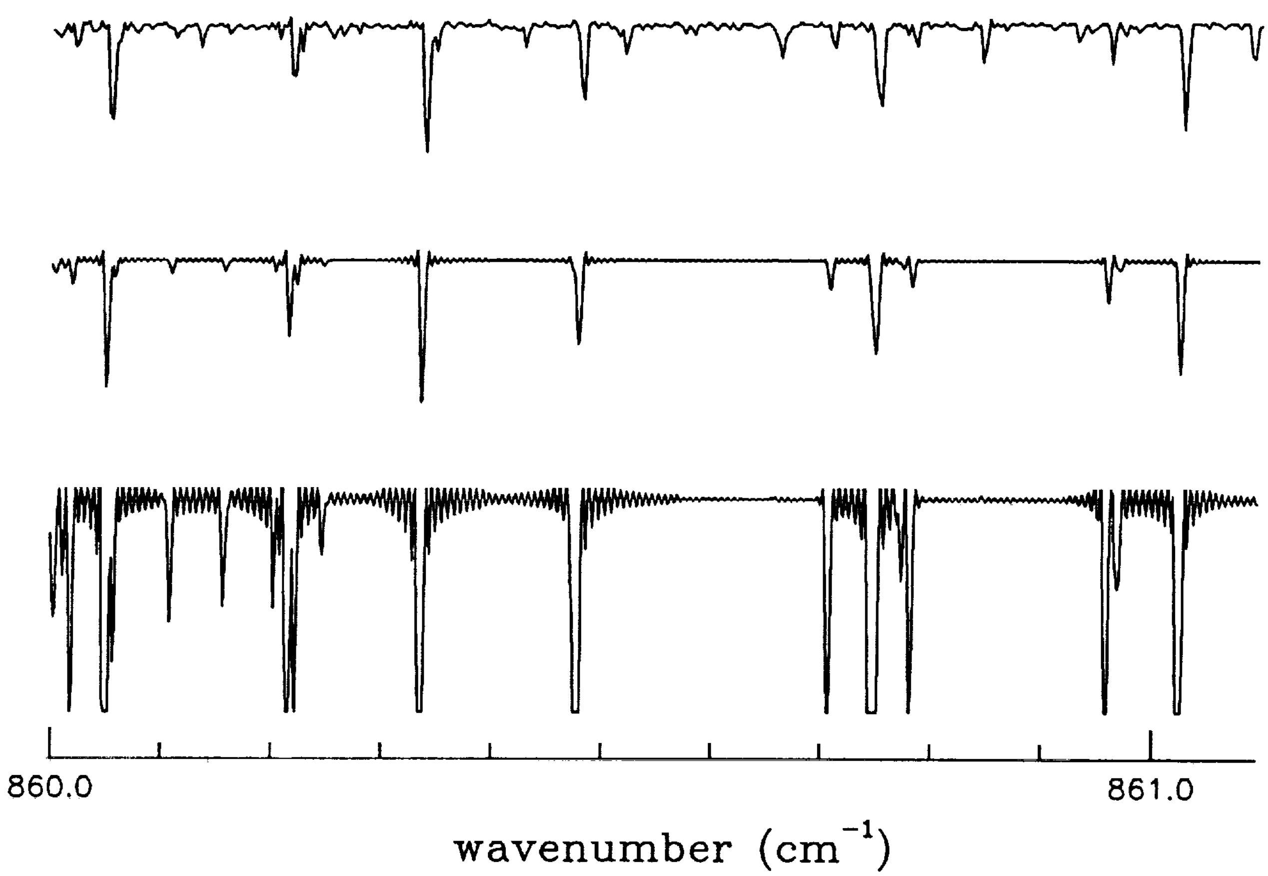
wavenumber (cm⁻¹)



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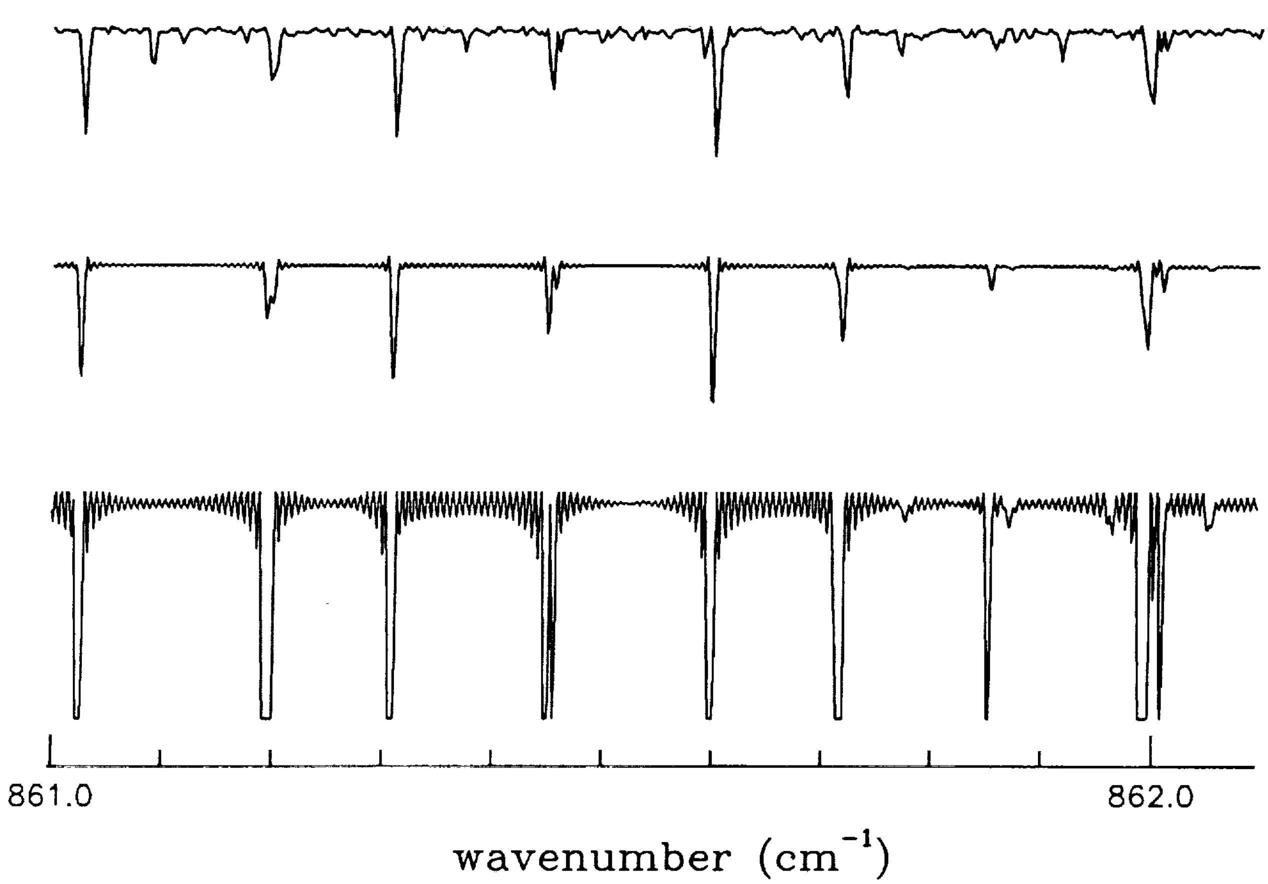
wavenumber (cm^-1)



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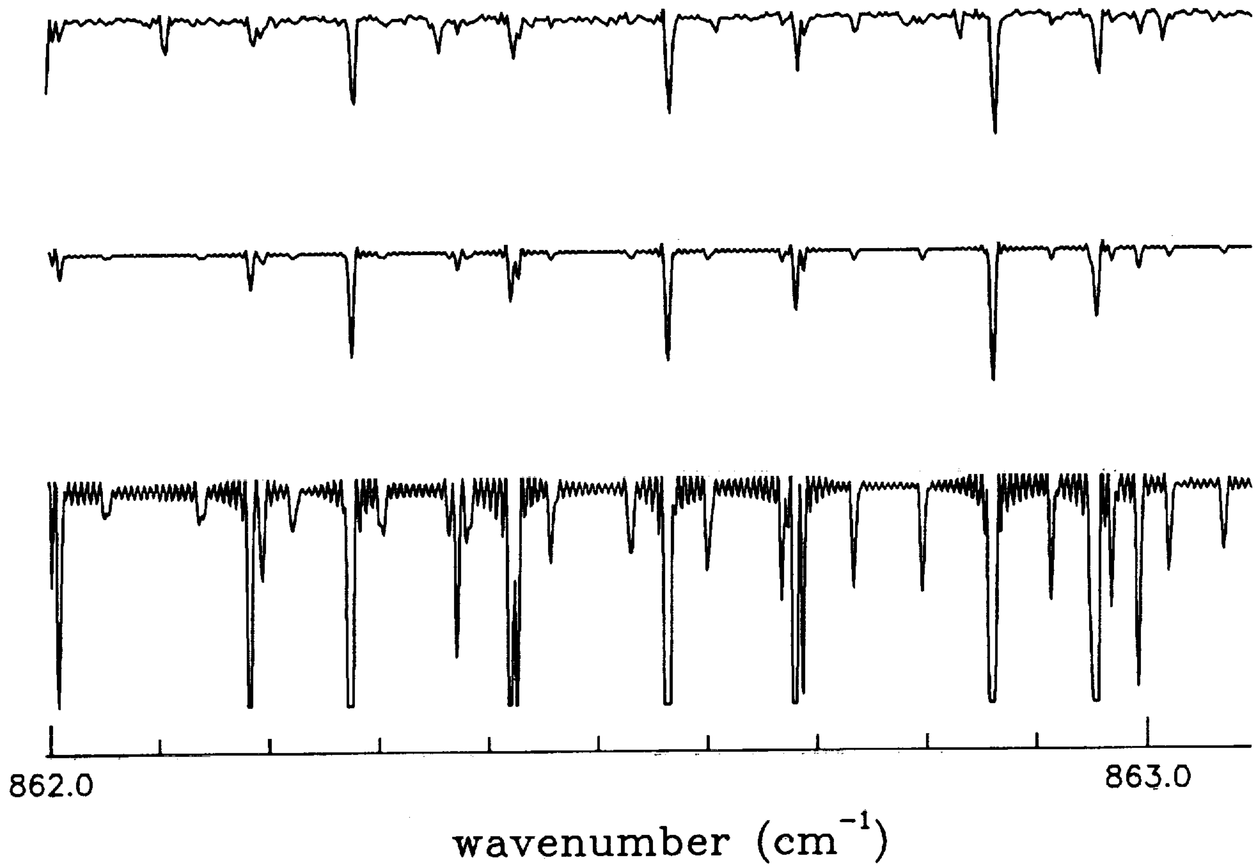
wavenumber (cm^-1)



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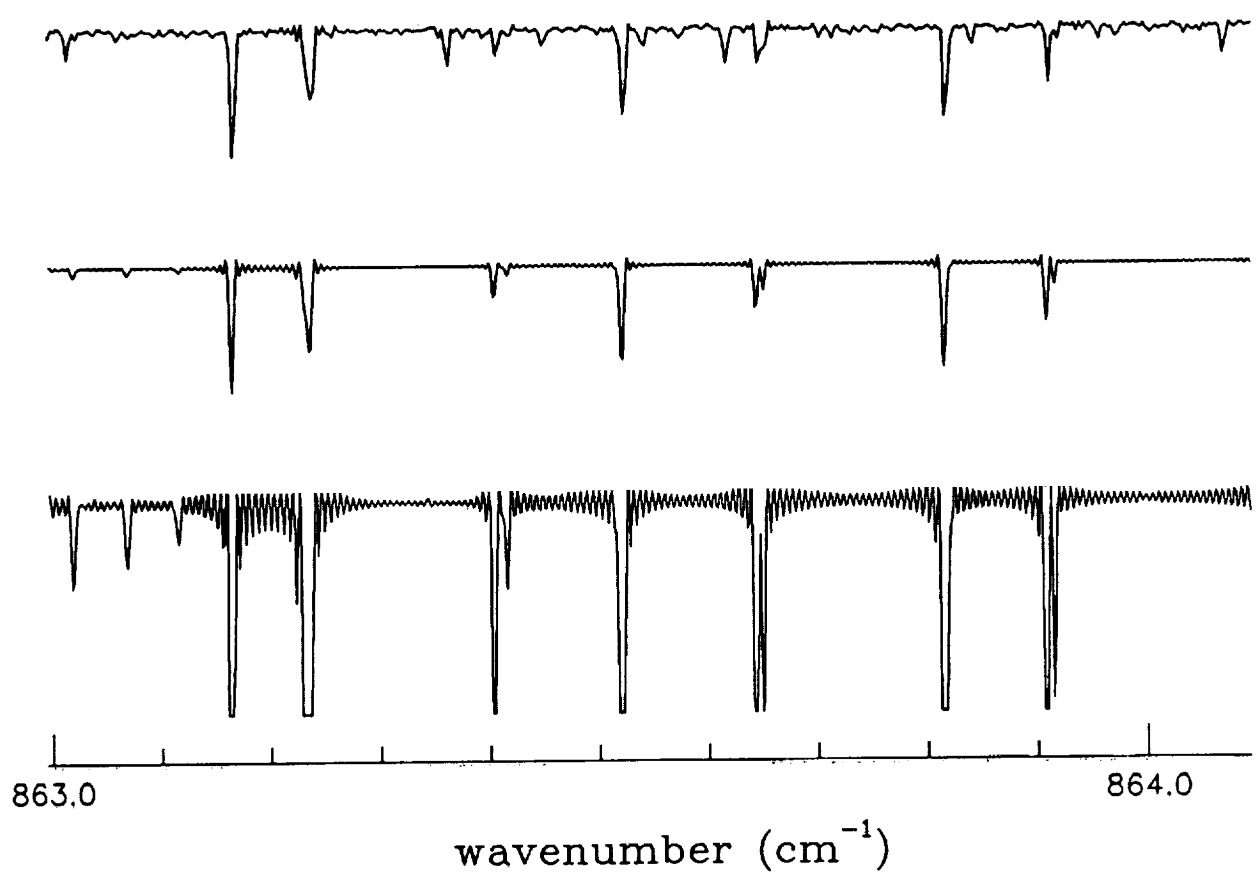
wavenumber (cm⁻¹)



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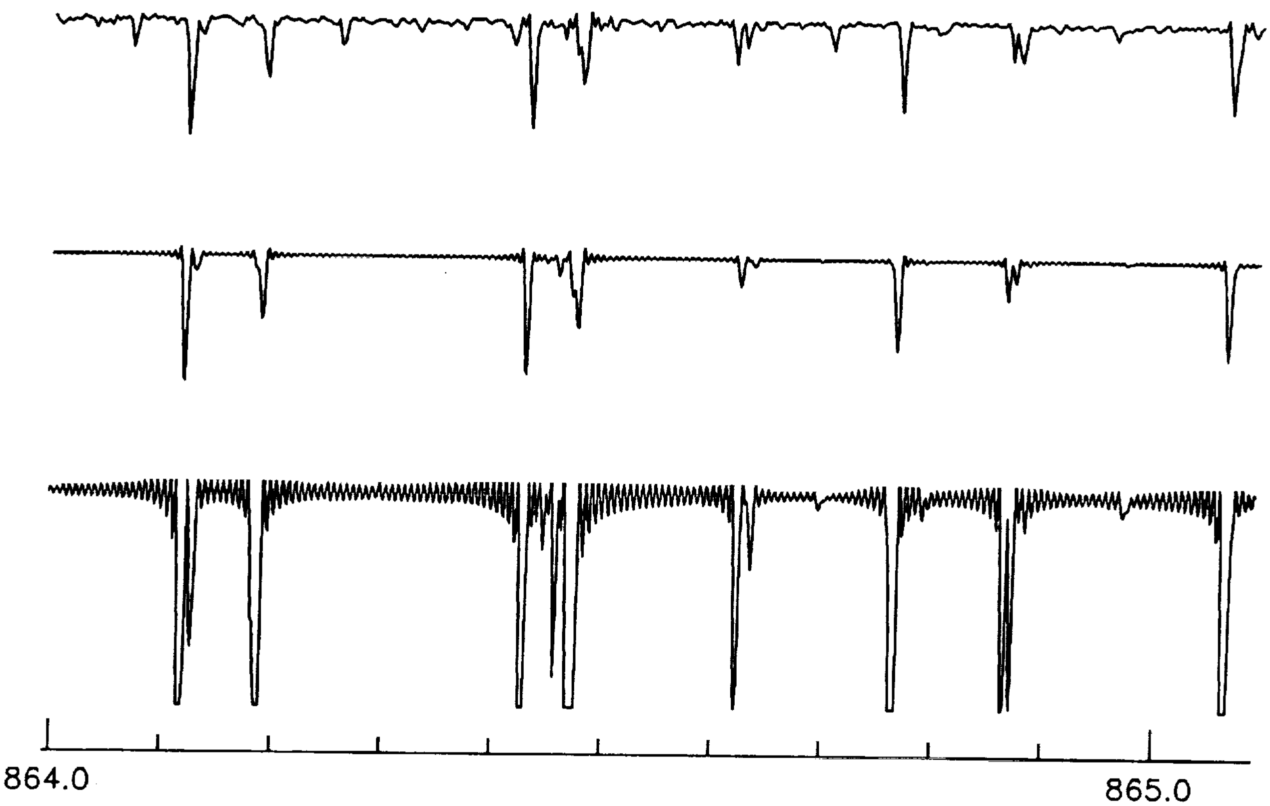
wavenumber (cm⁻¹)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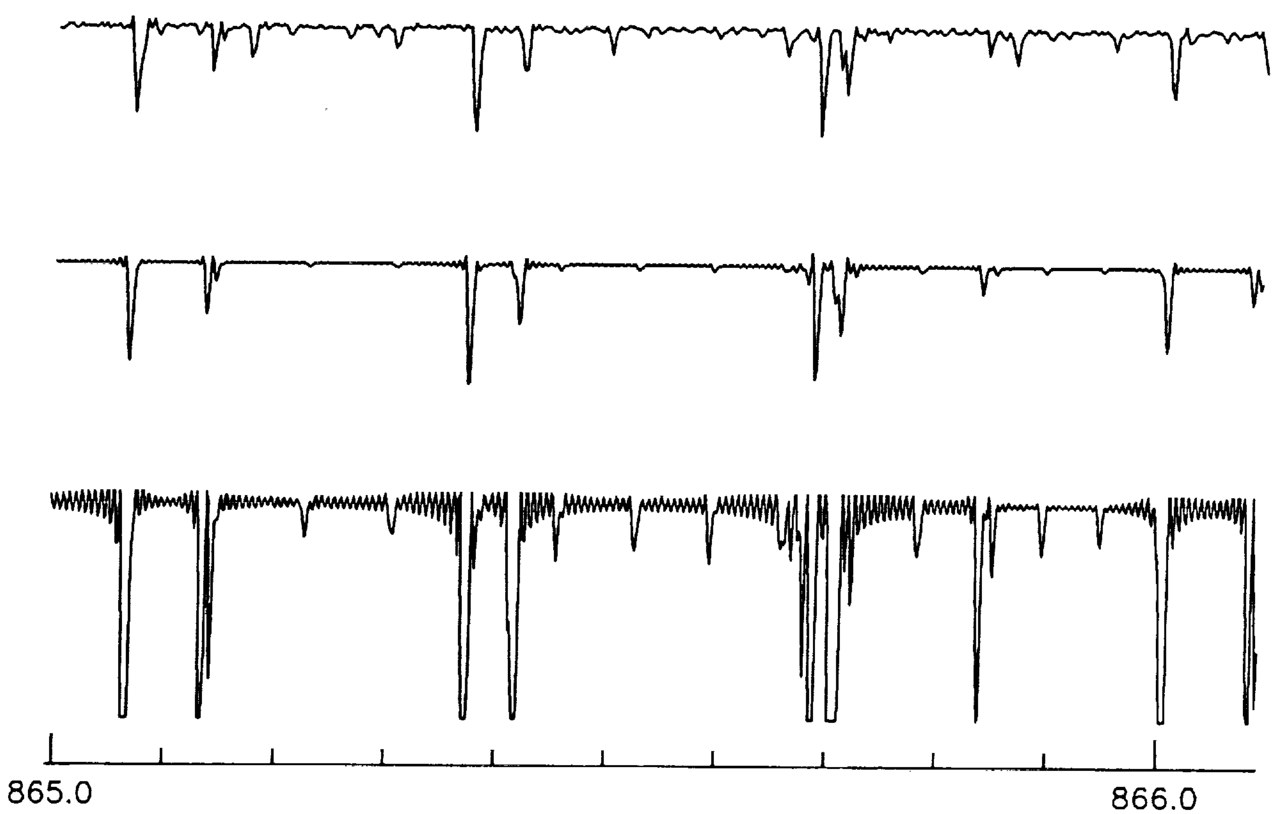
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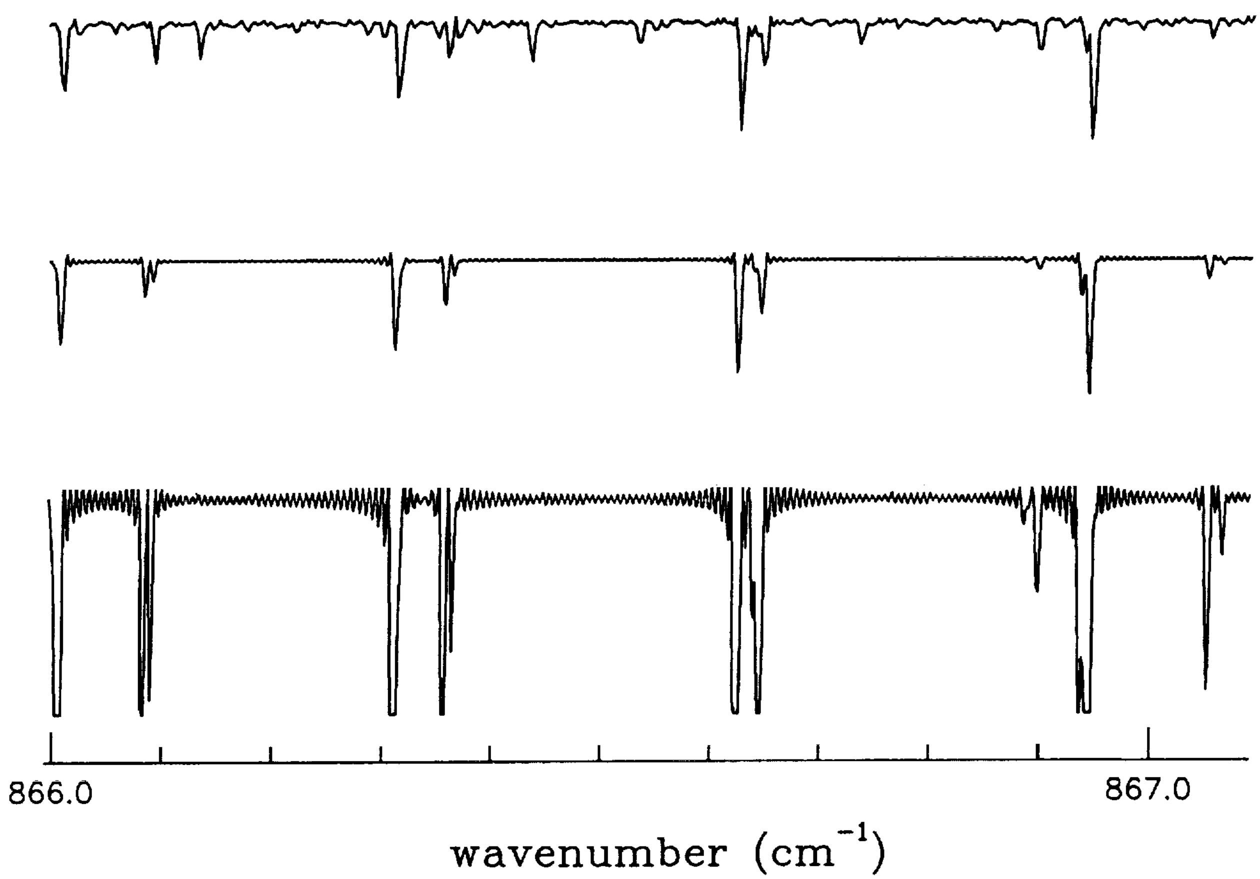
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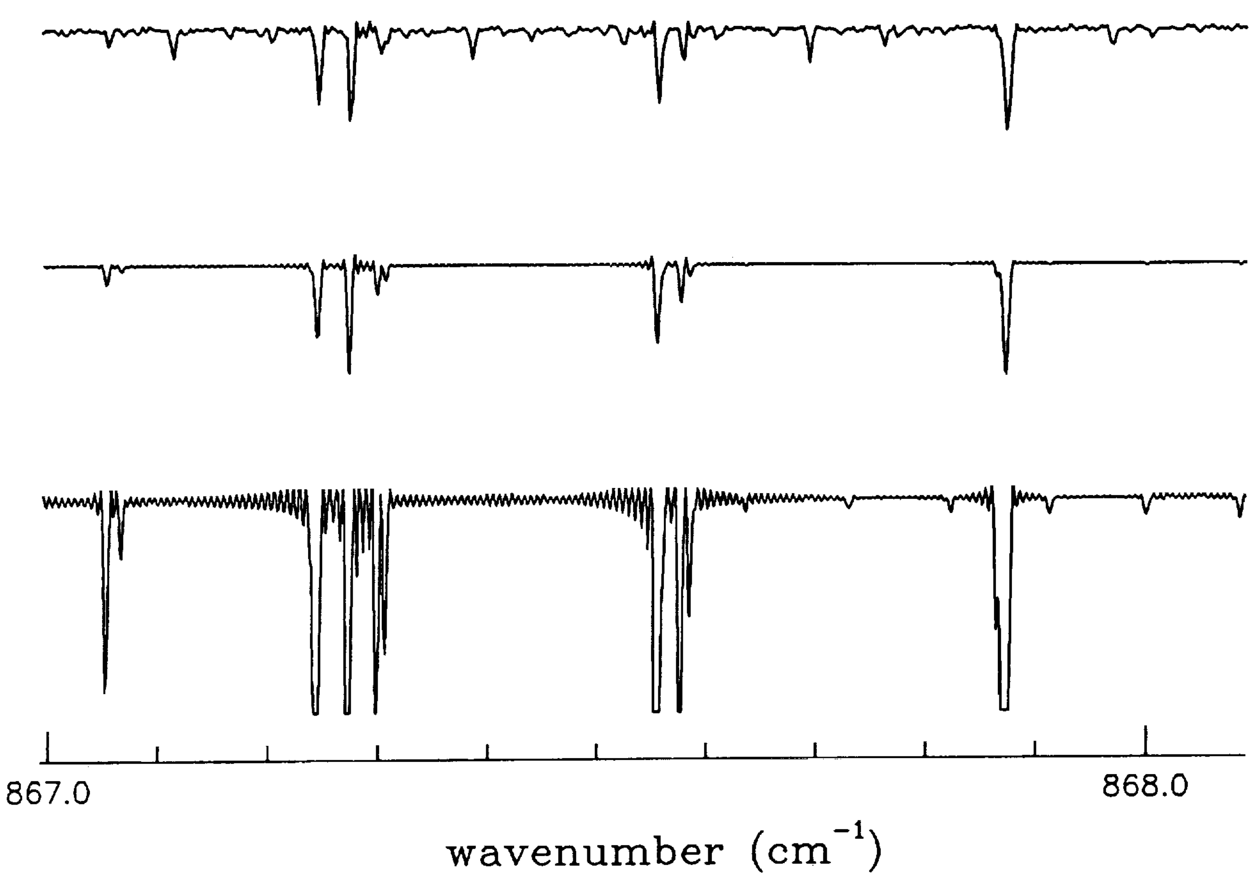
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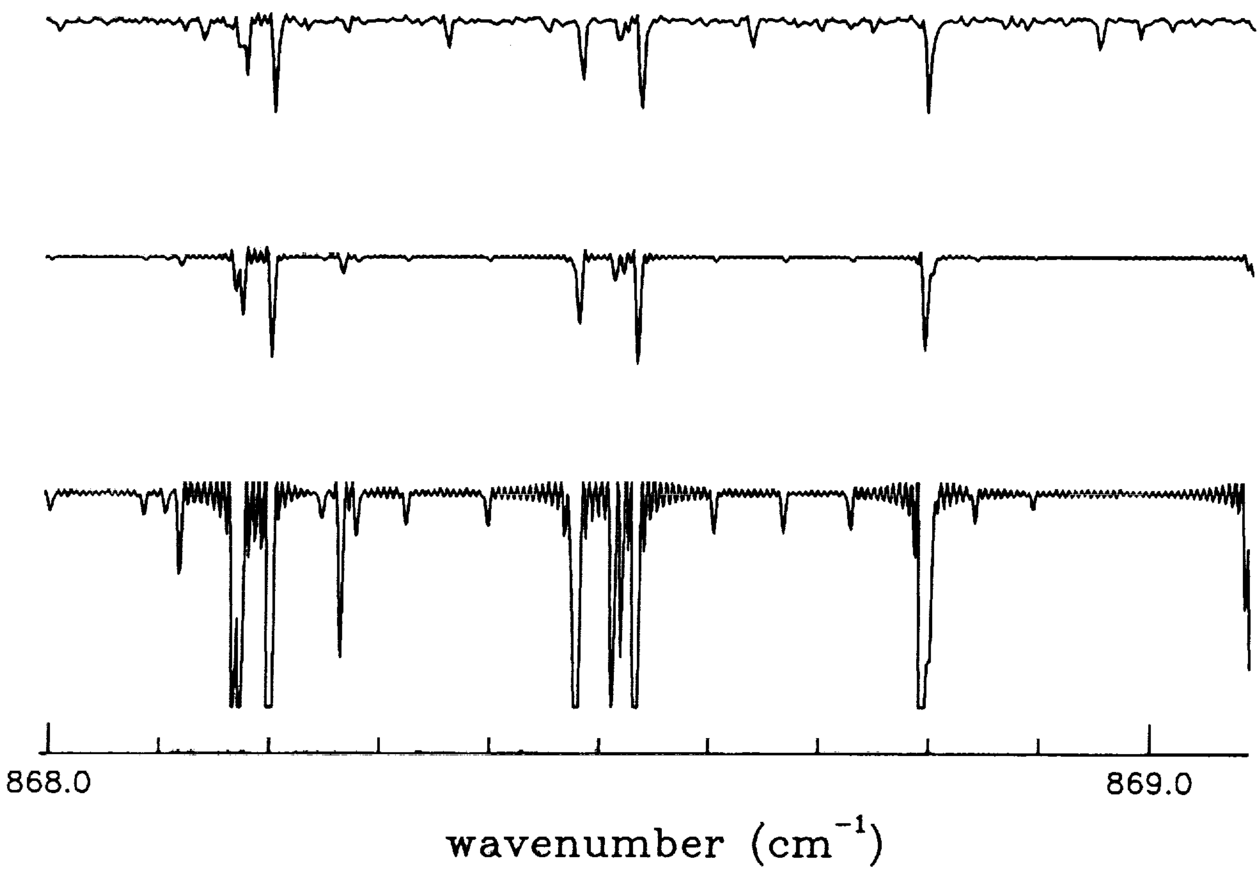
wavenumber (cm⁻¹)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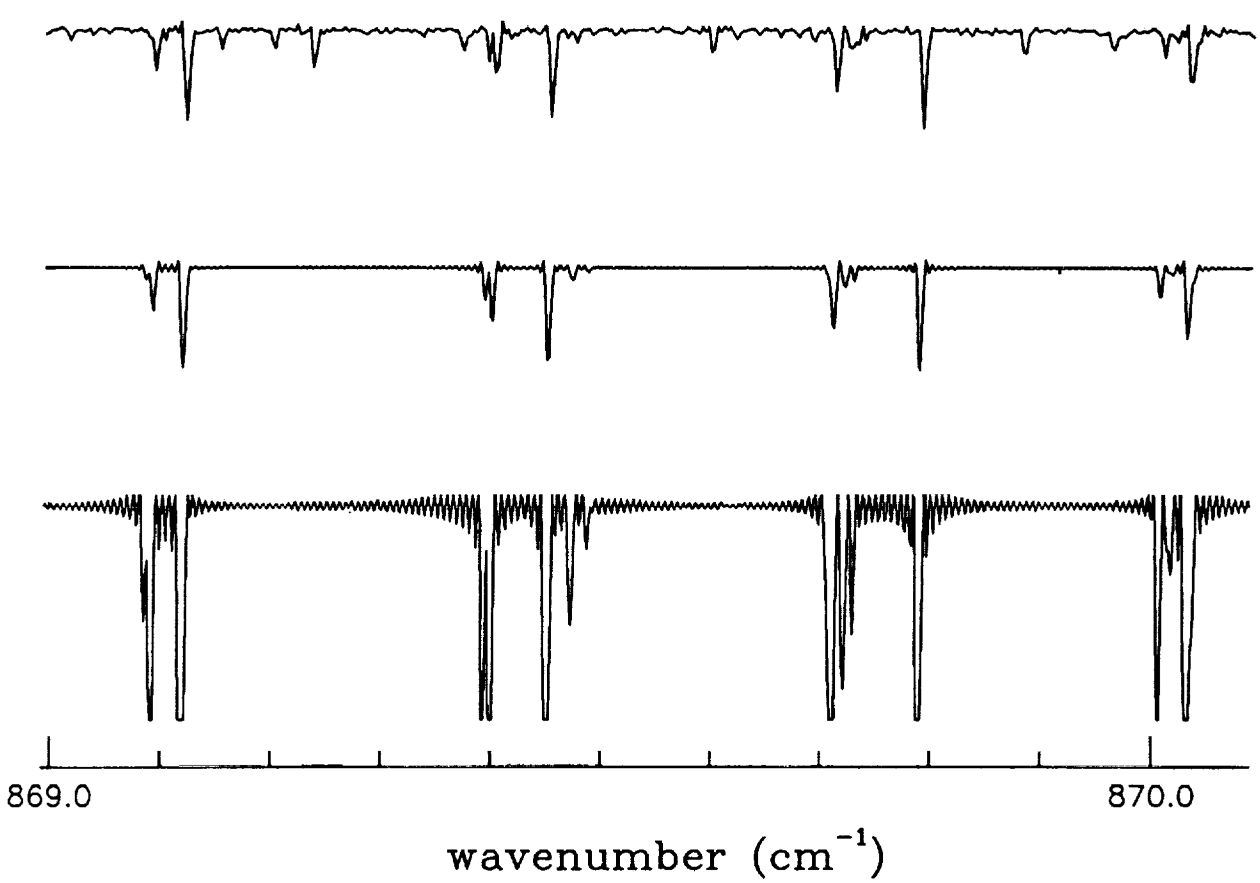
wavenumber (cm^{-1})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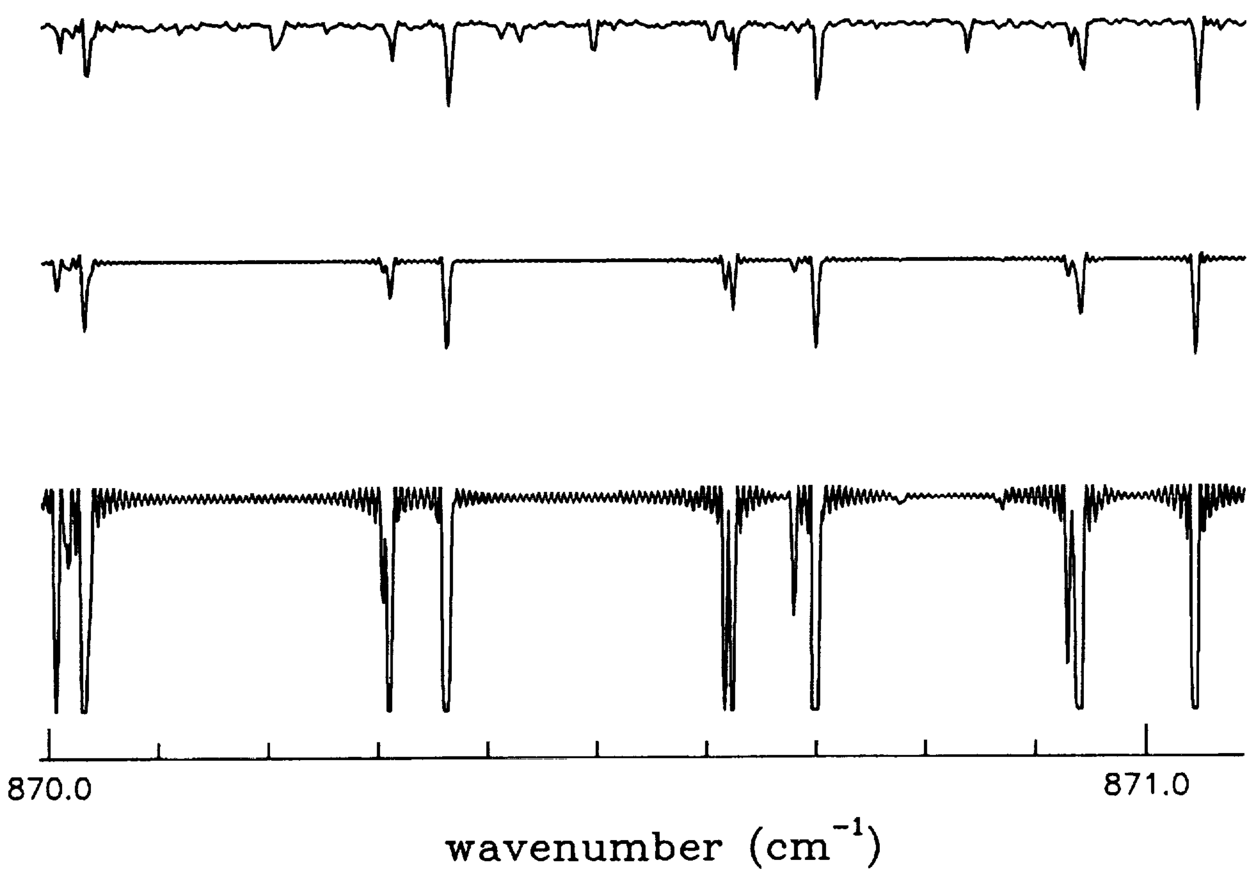
wavenumber (cm^{-1})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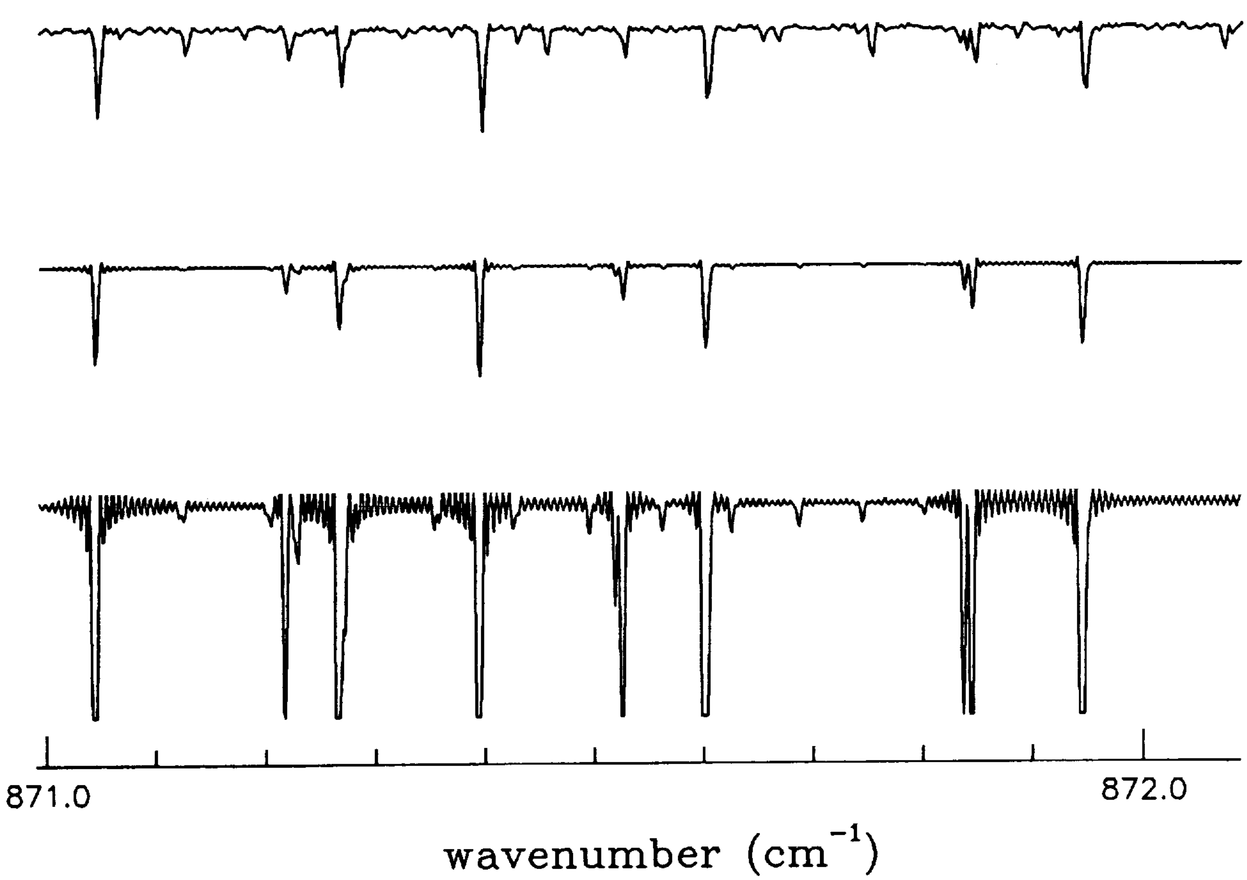
wavenumber (cm⁻¹)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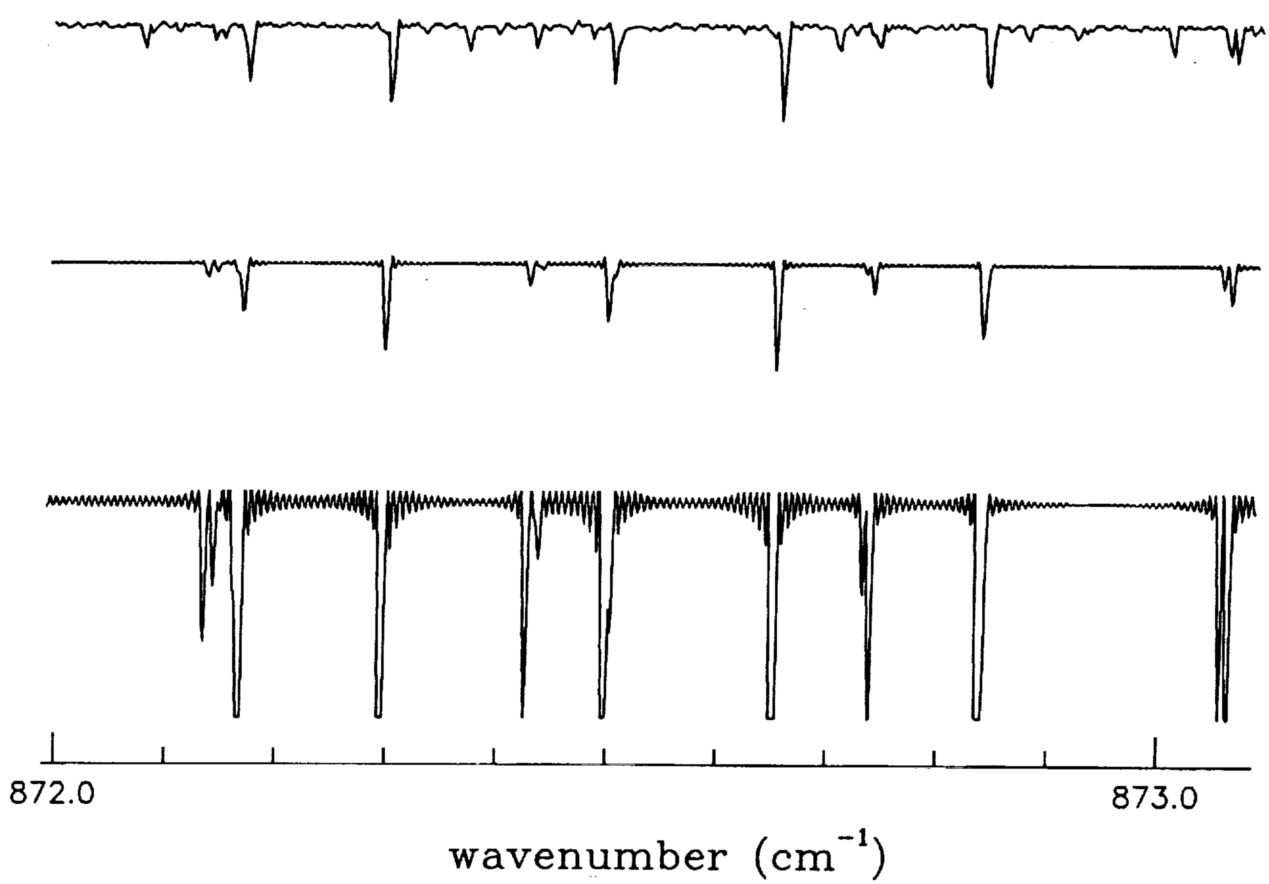
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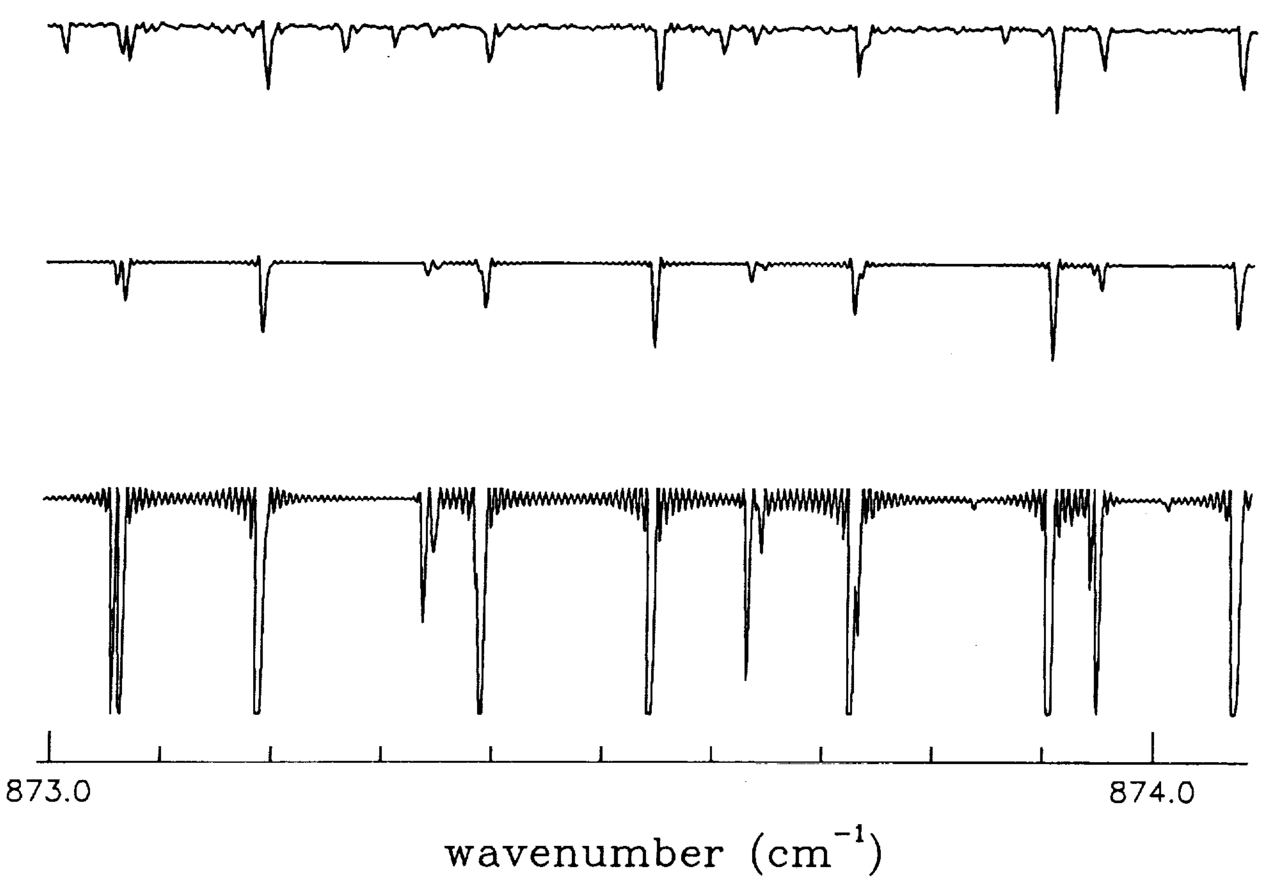
wavenumber (cm⁻¹)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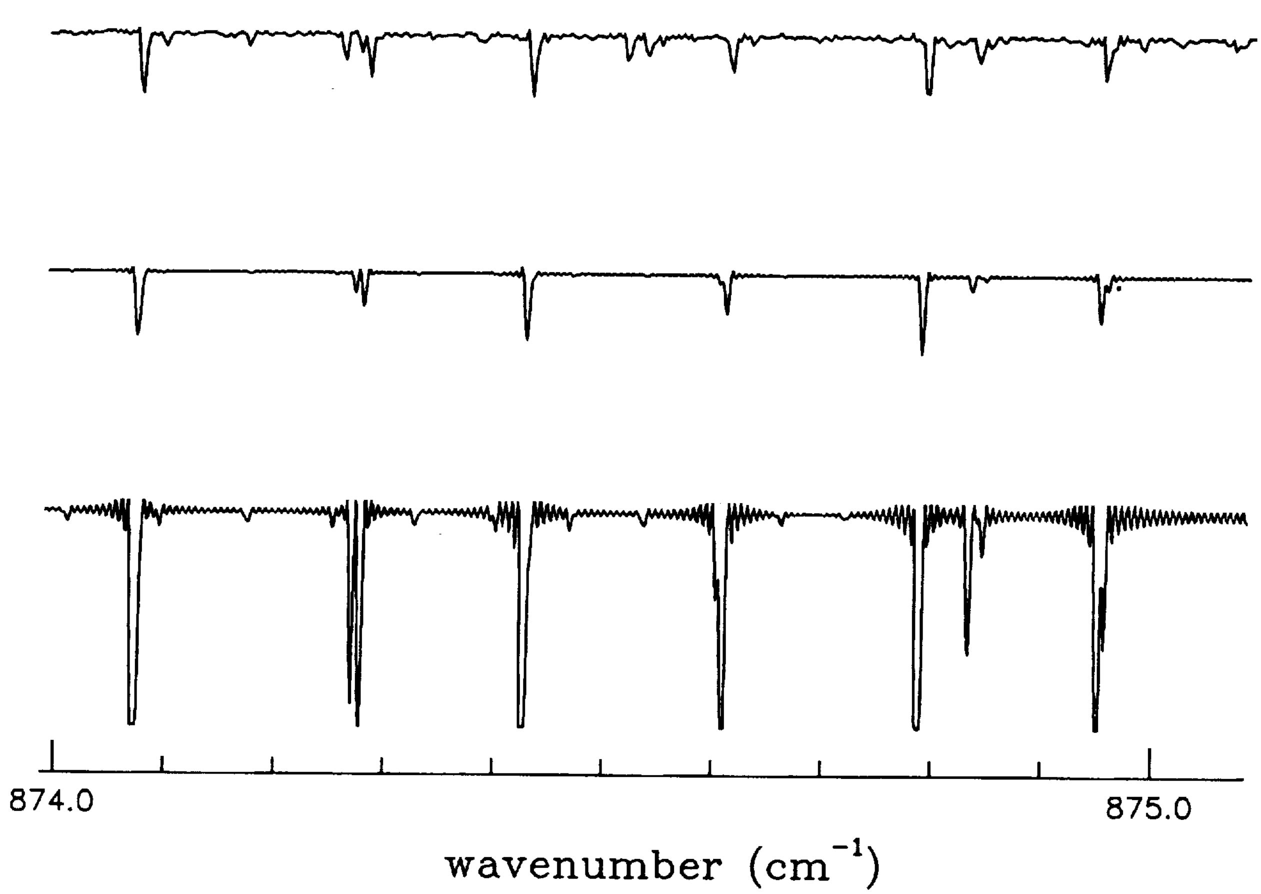
wavenumber (cm⁻¹)



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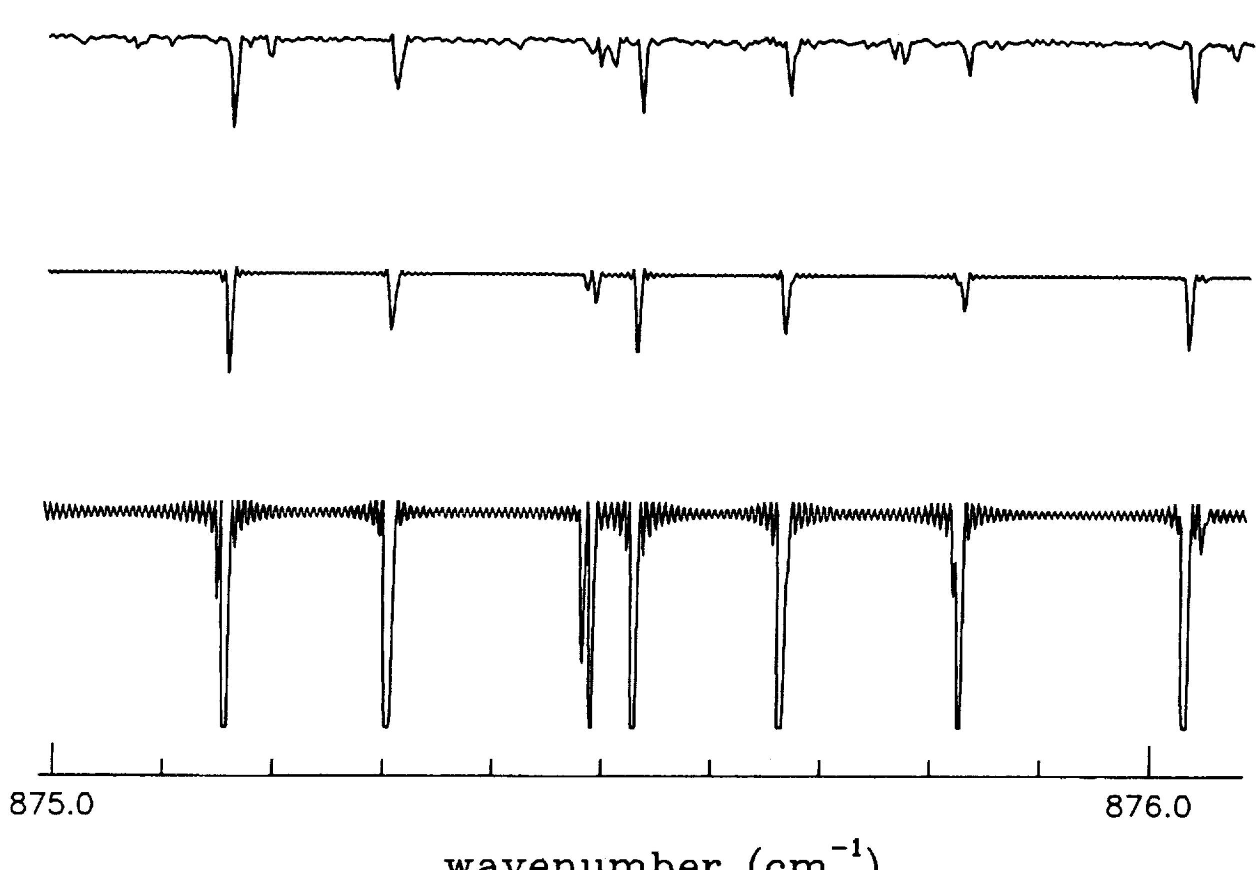
wavenumber (cm^{-1})



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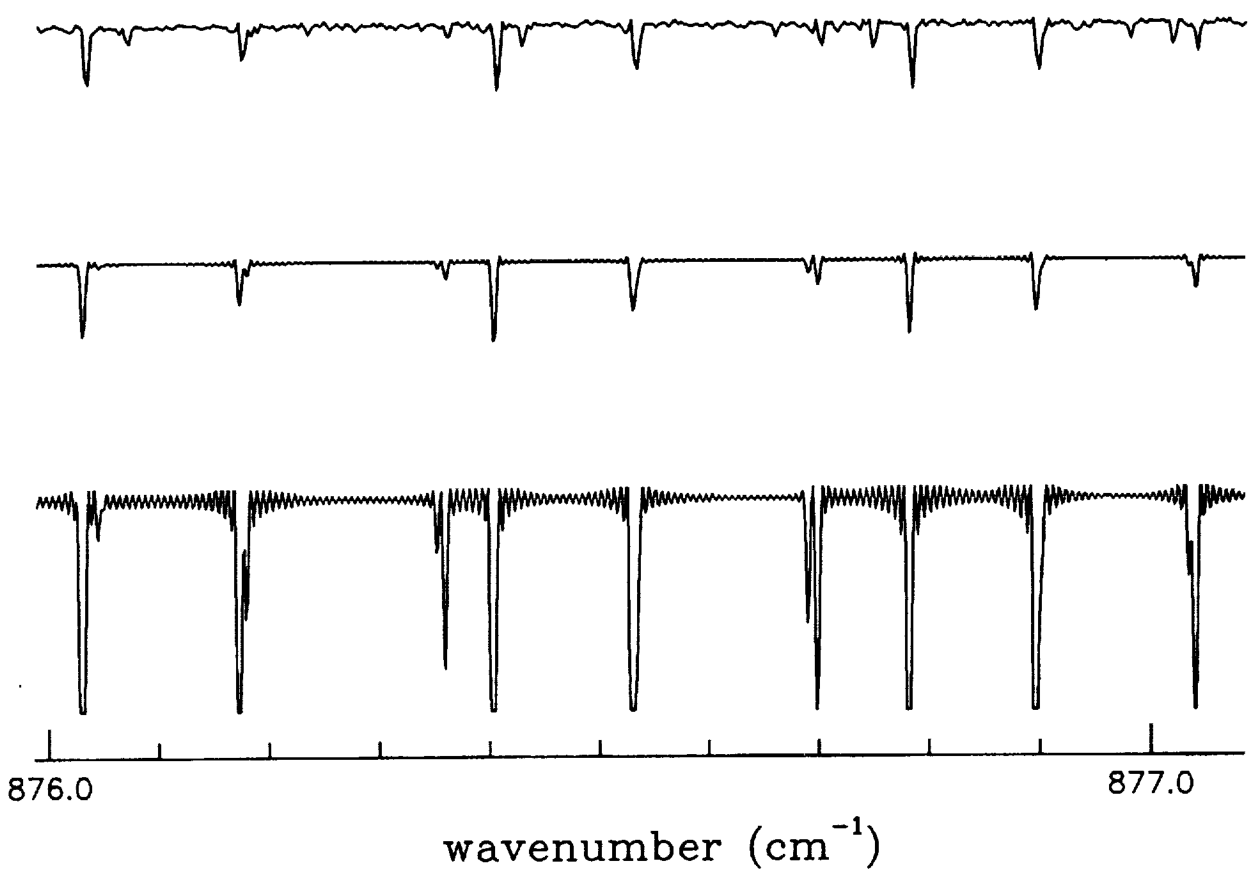
wavenumber (cm^{-1})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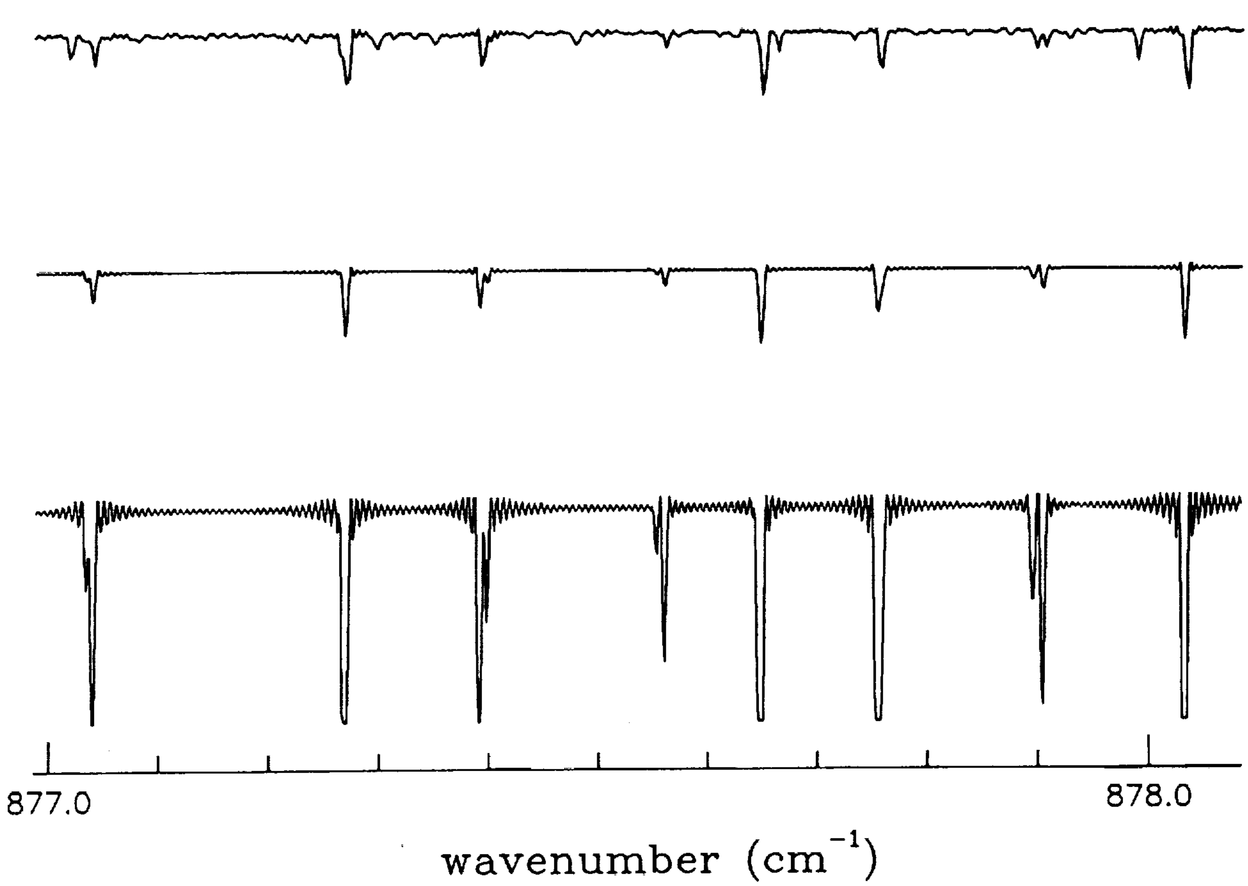
wavenumber (cm⁻¹)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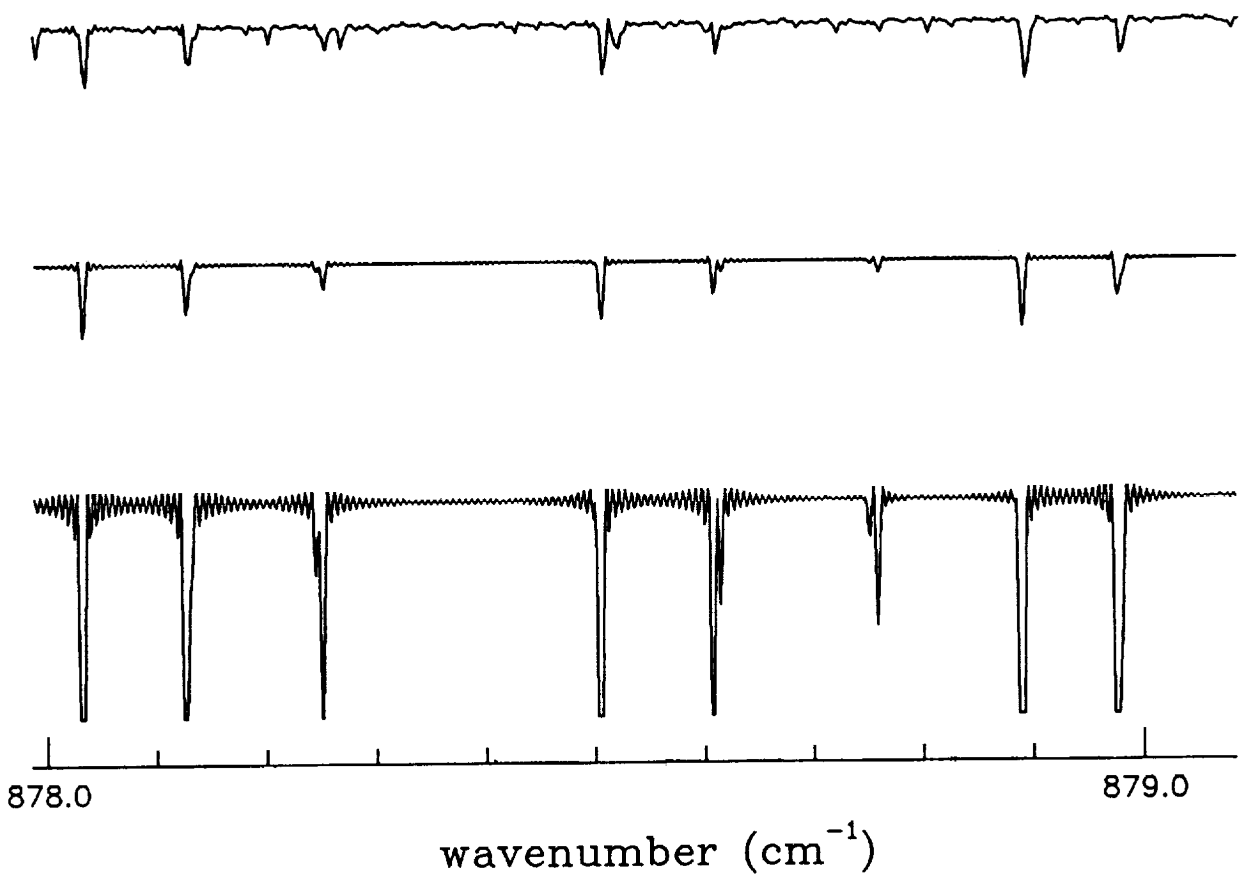
wavenumber (cm⁻¹)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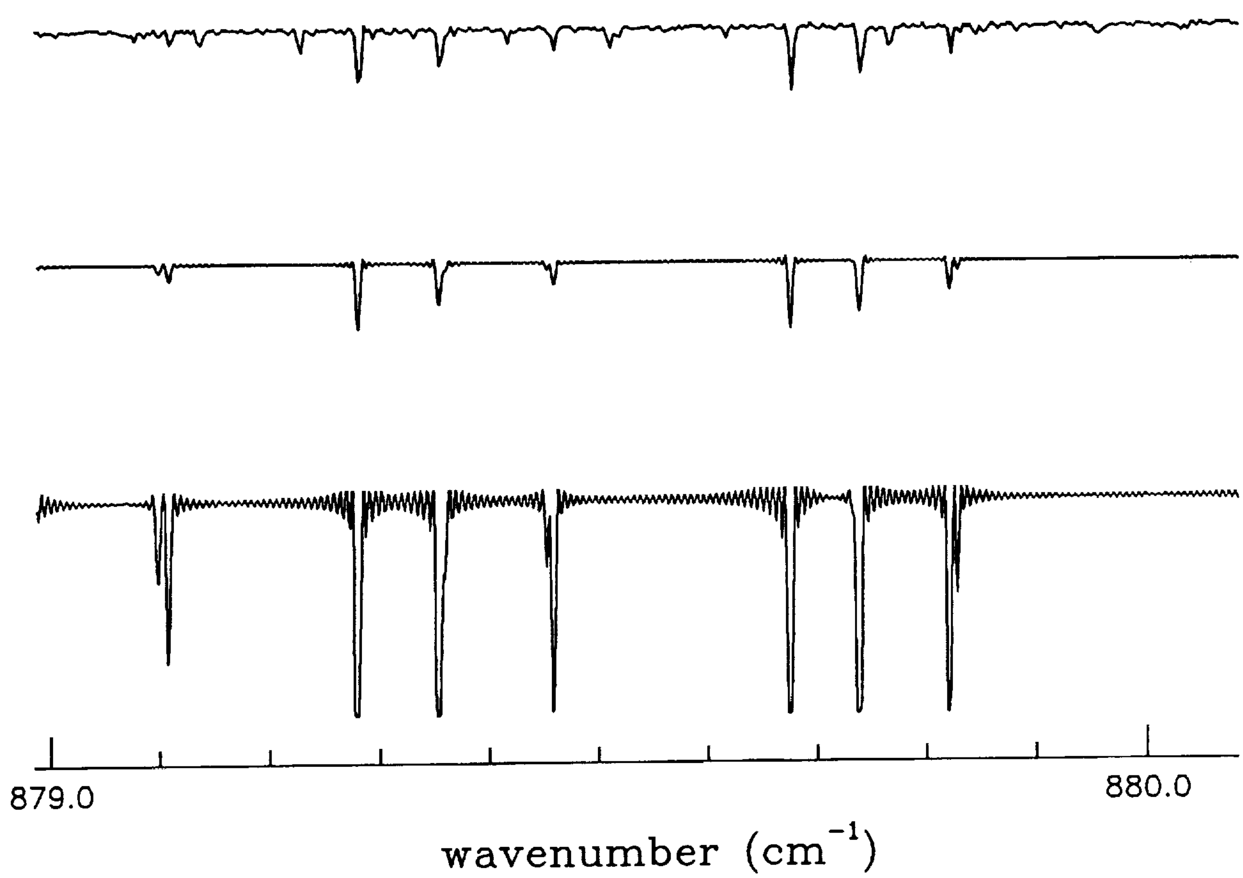
wavenumber (cm⁻¹)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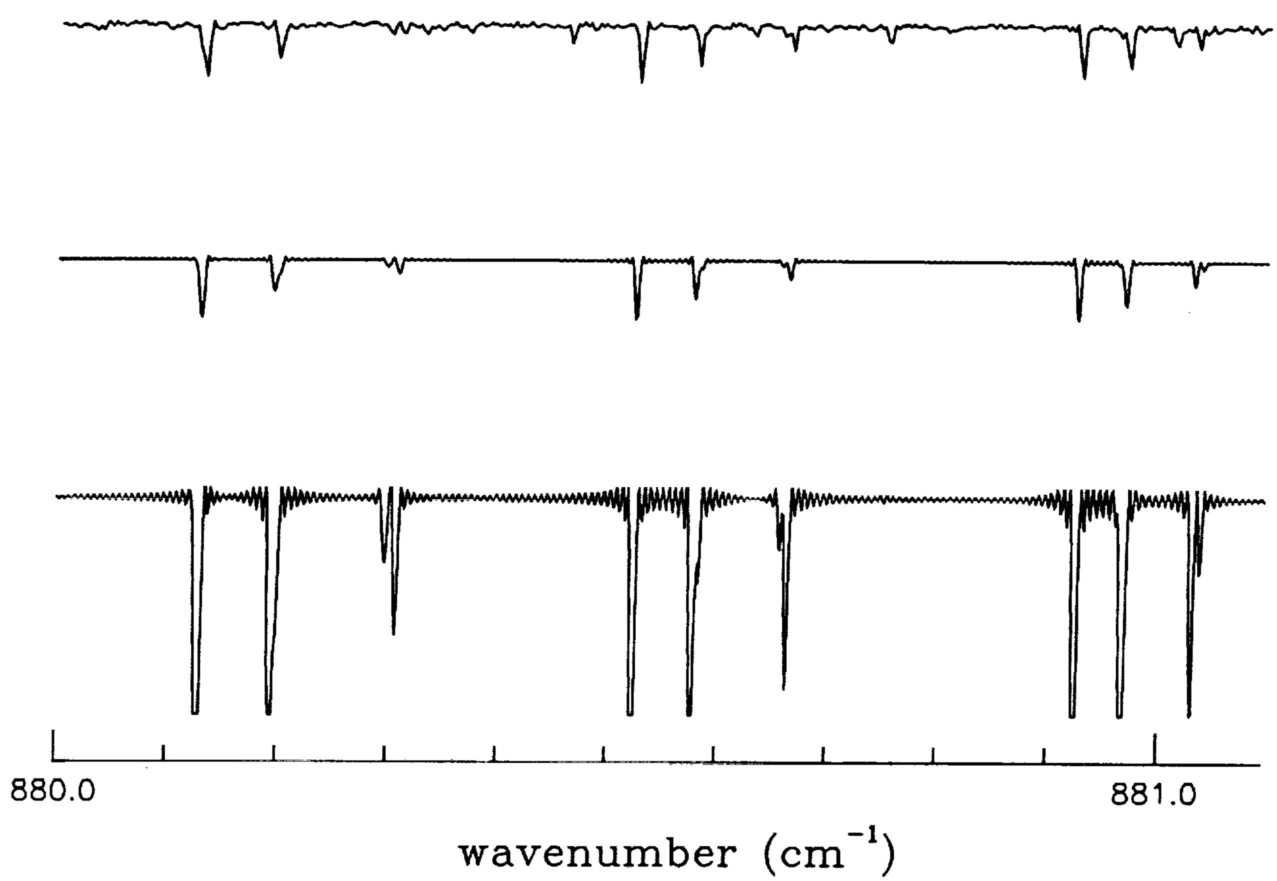
wavenumber (cm⁻¹)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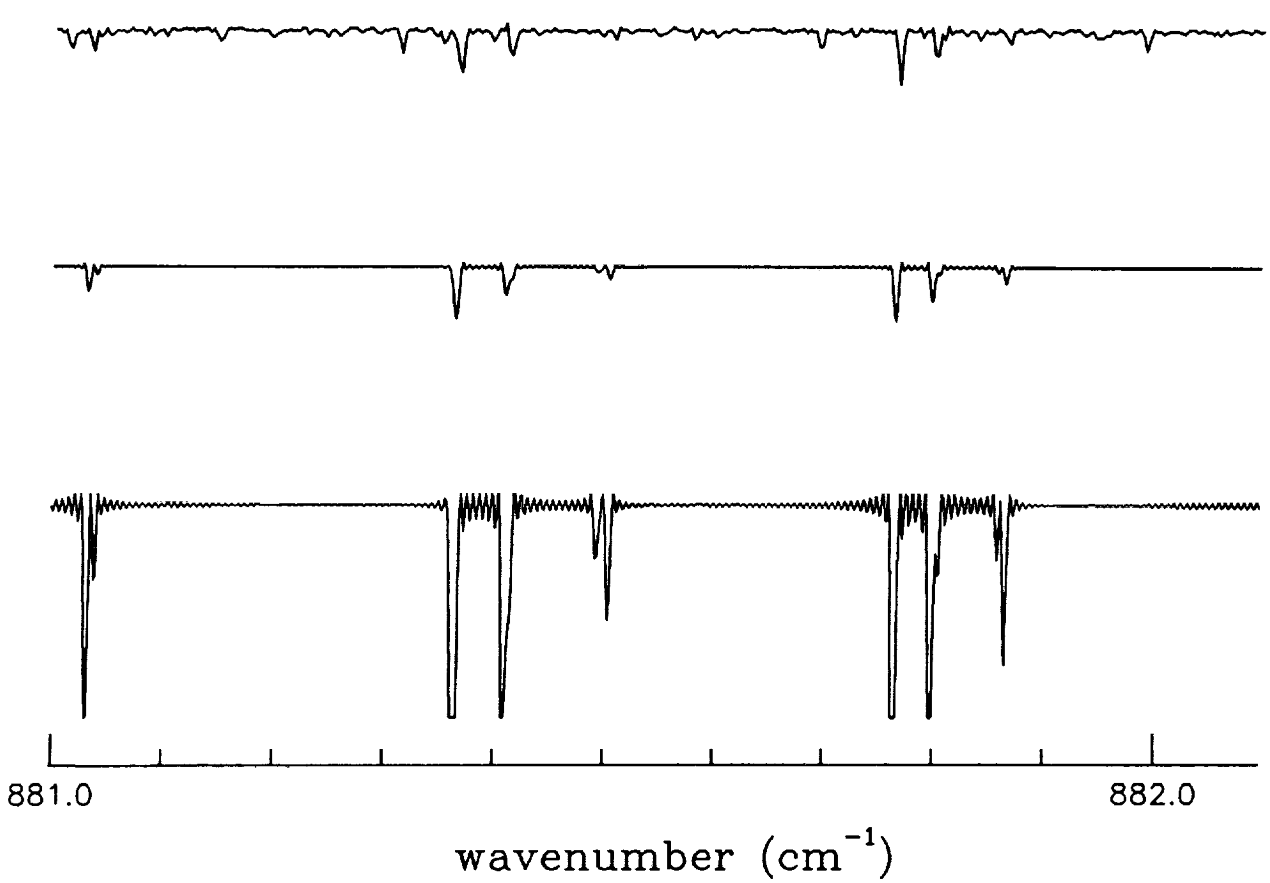
wavenumber (cm-1)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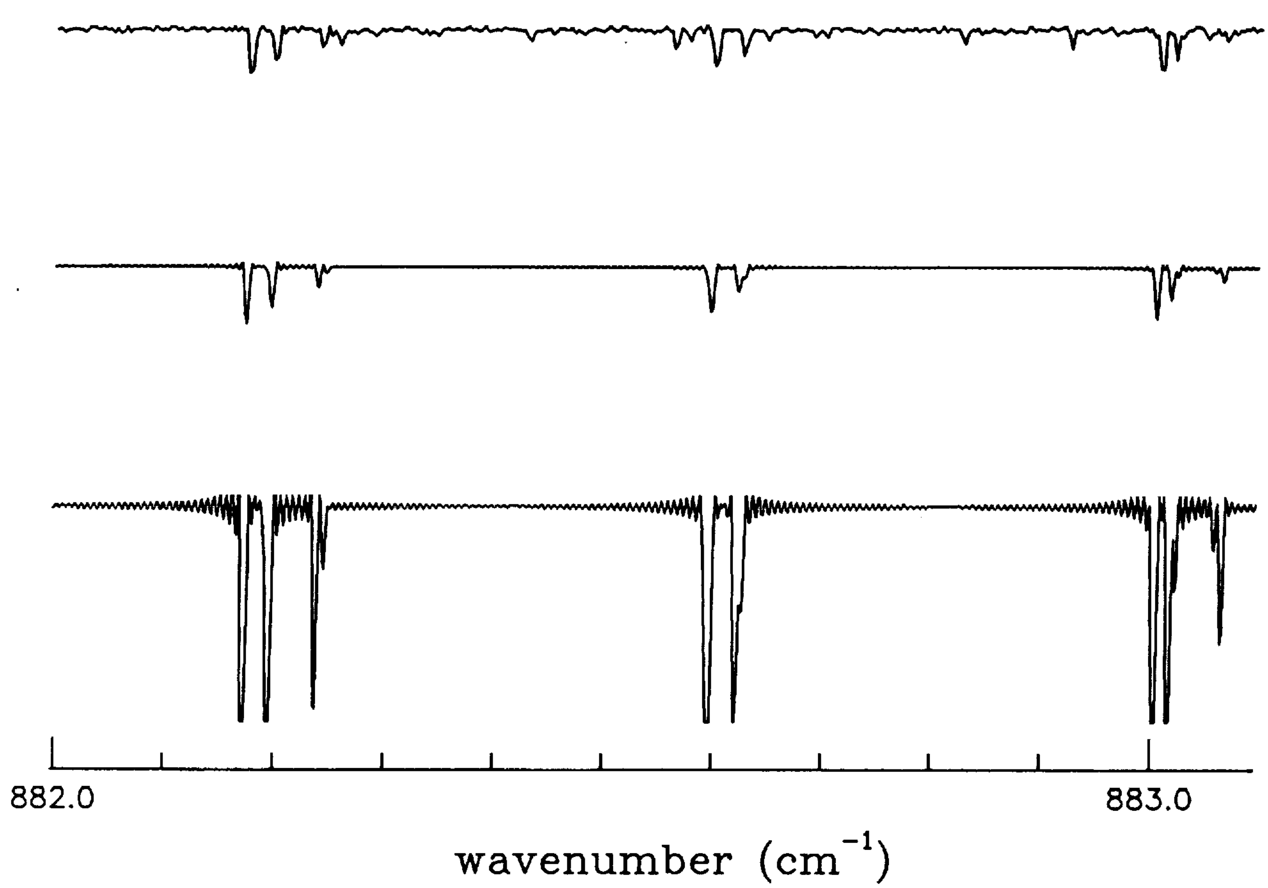
wavenumber (cm-1)


882.0
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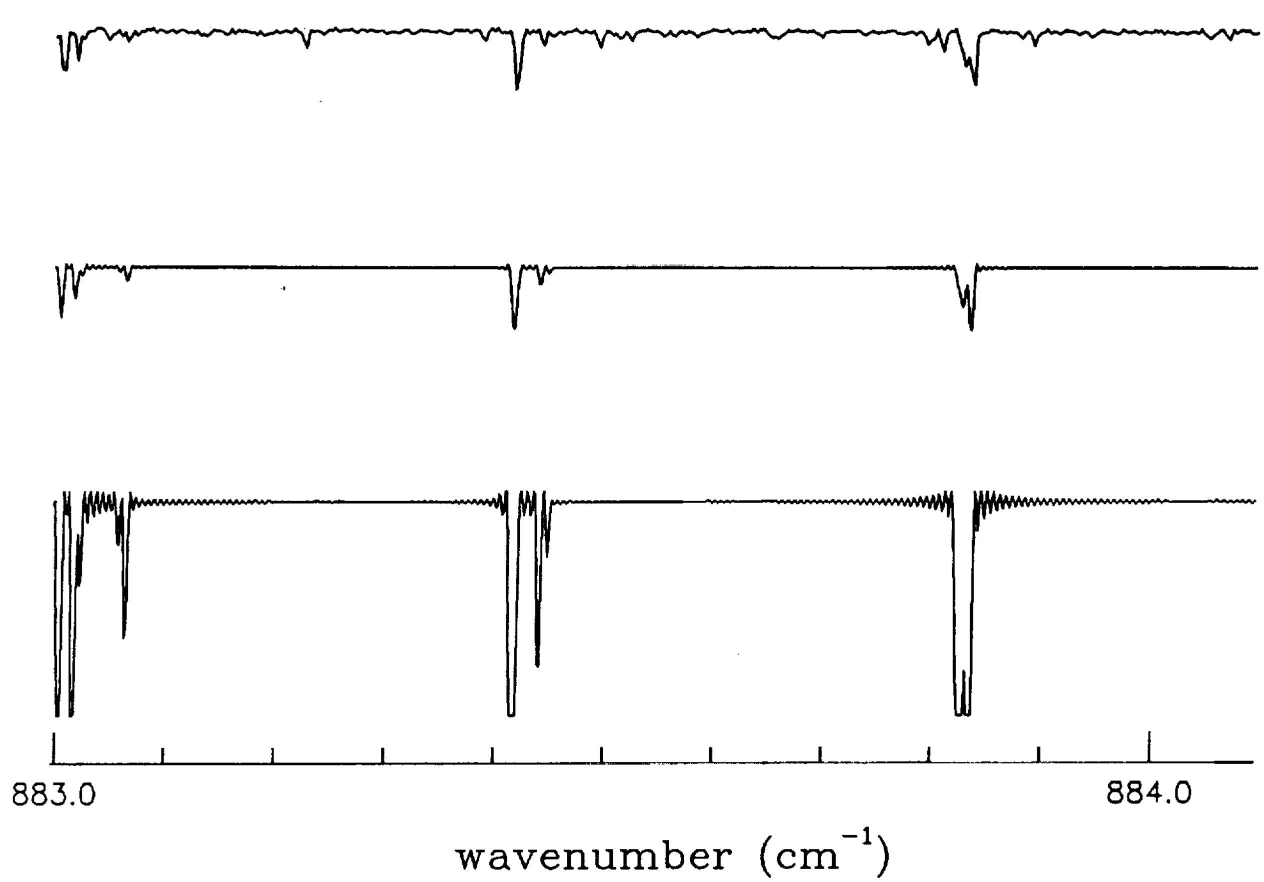
wavenumber (cm^{-1})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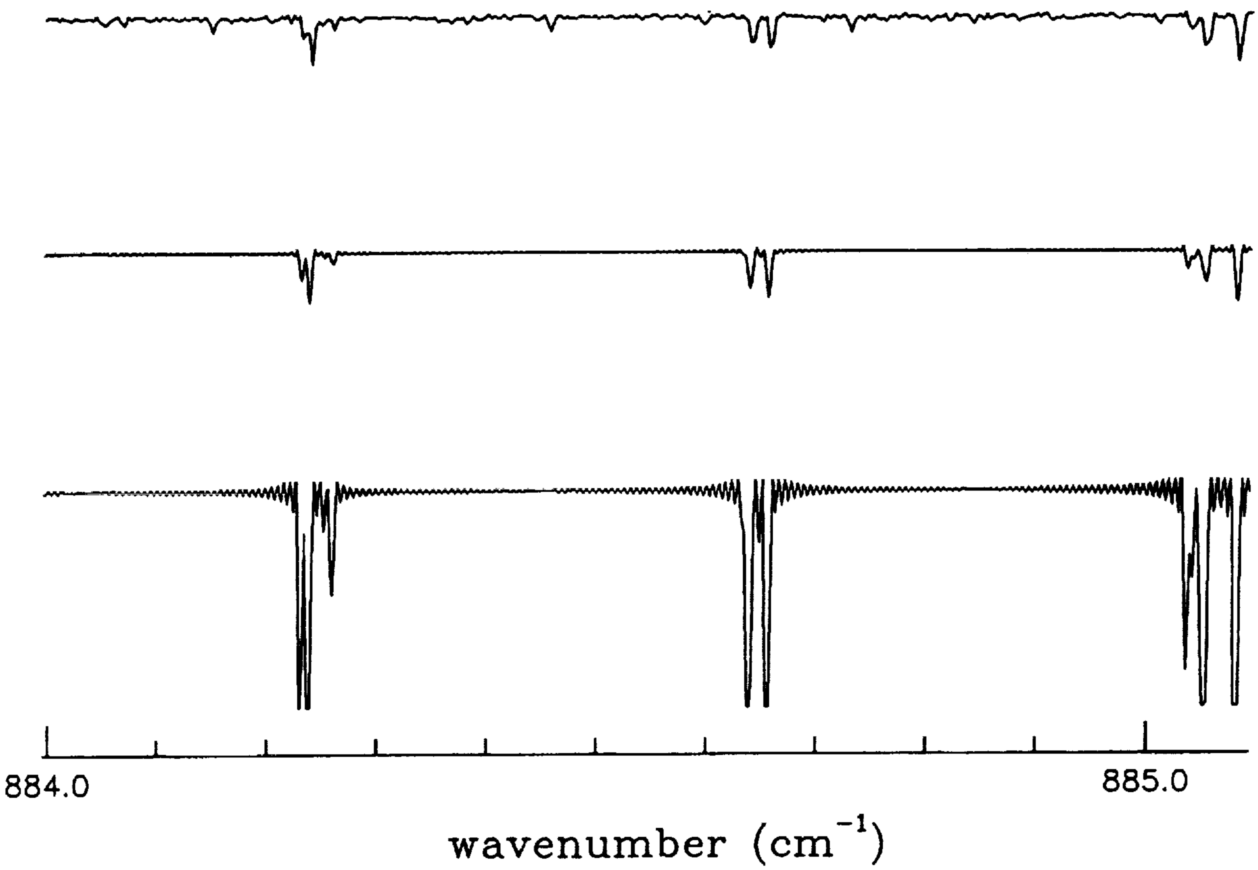
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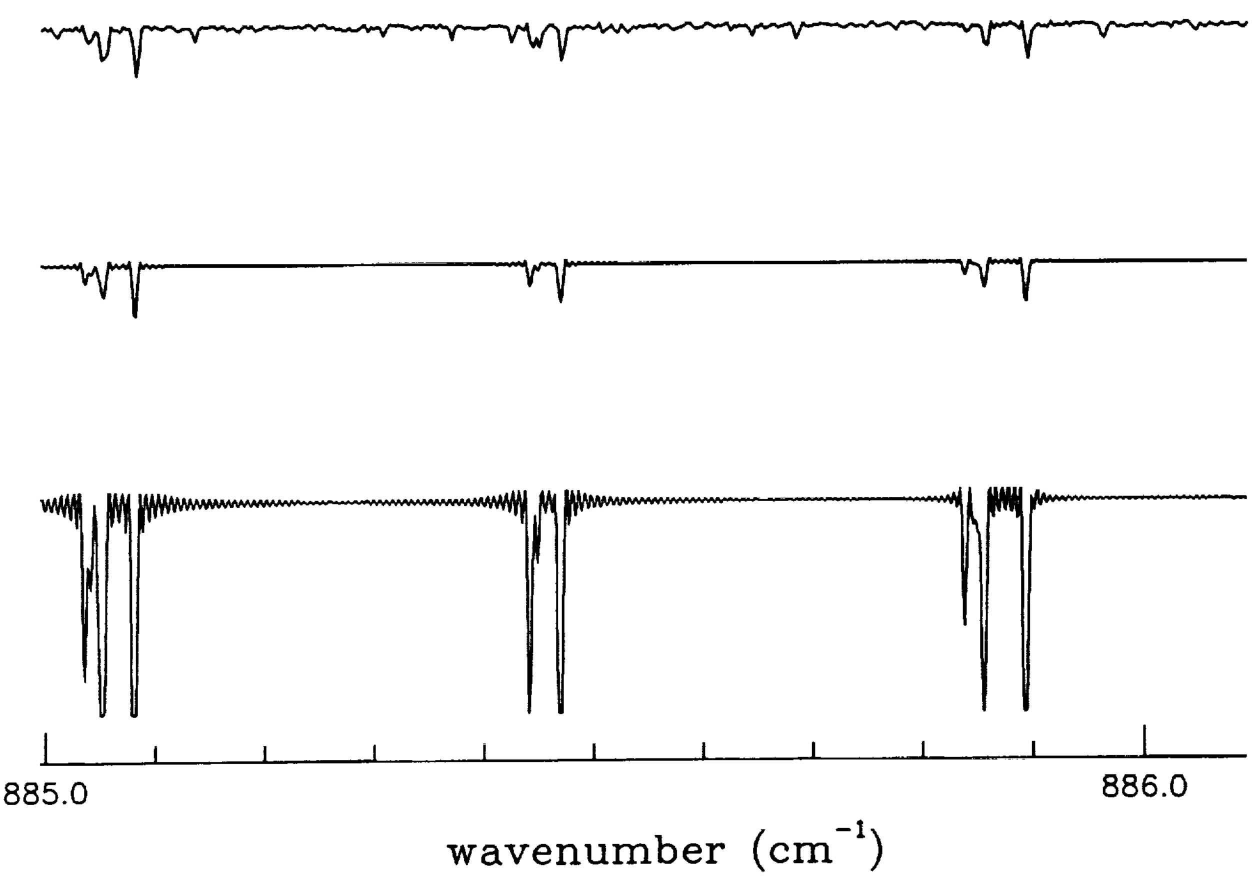
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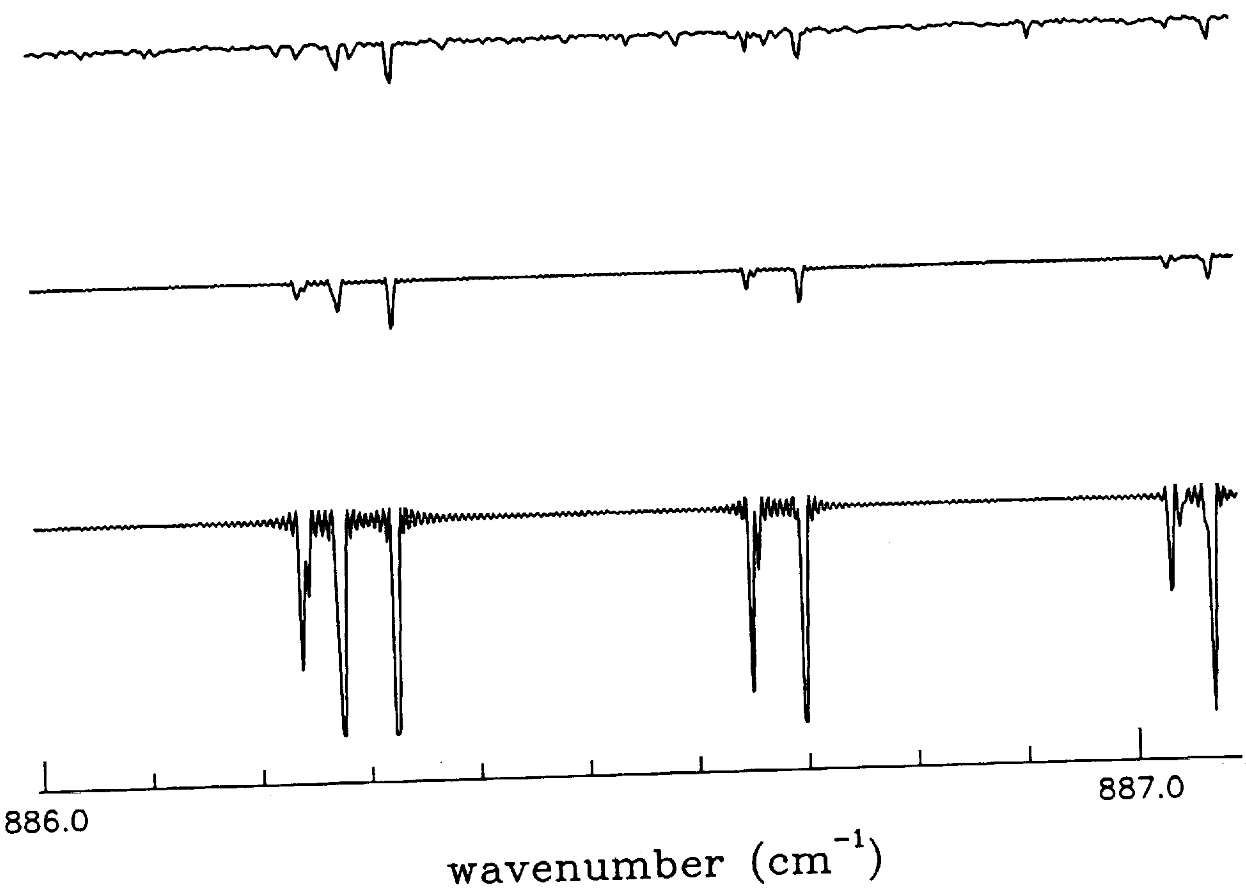
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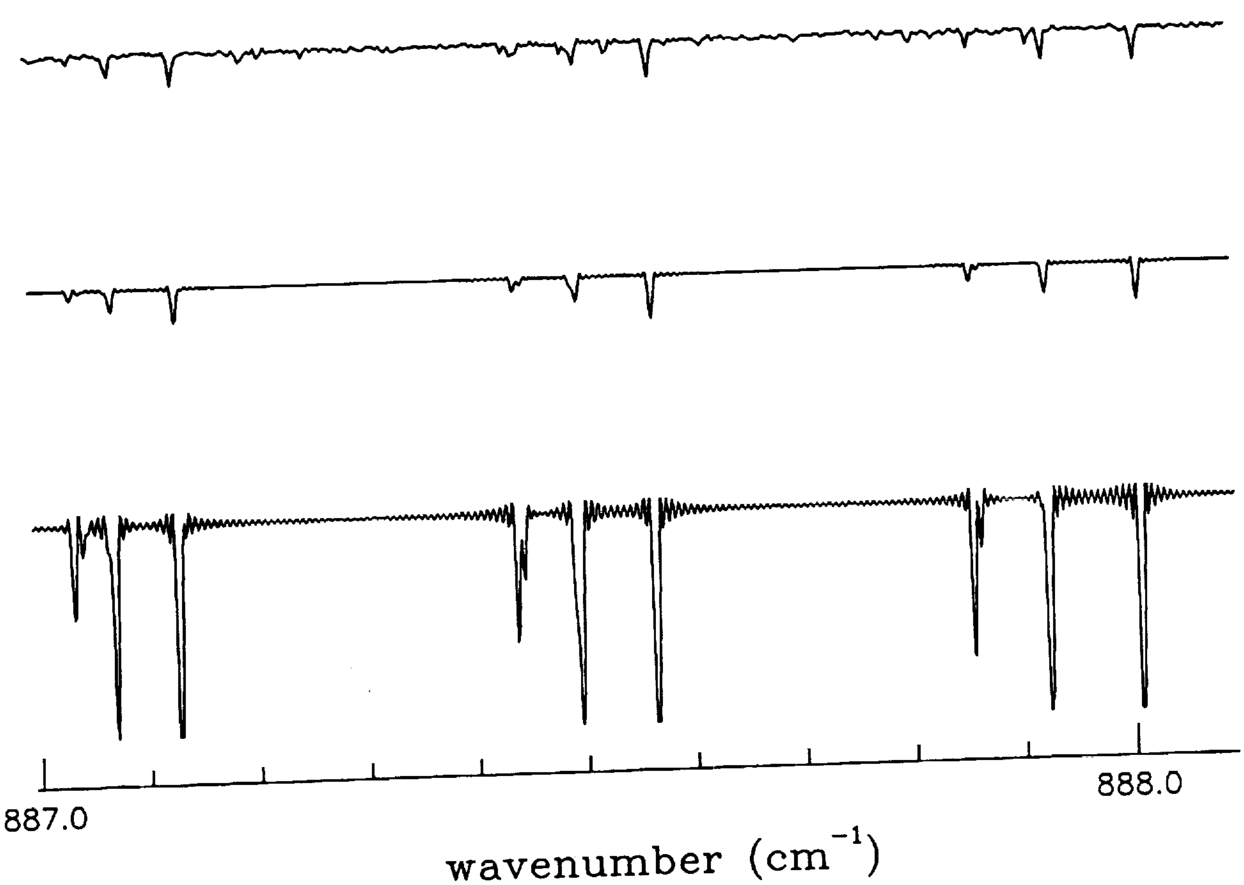
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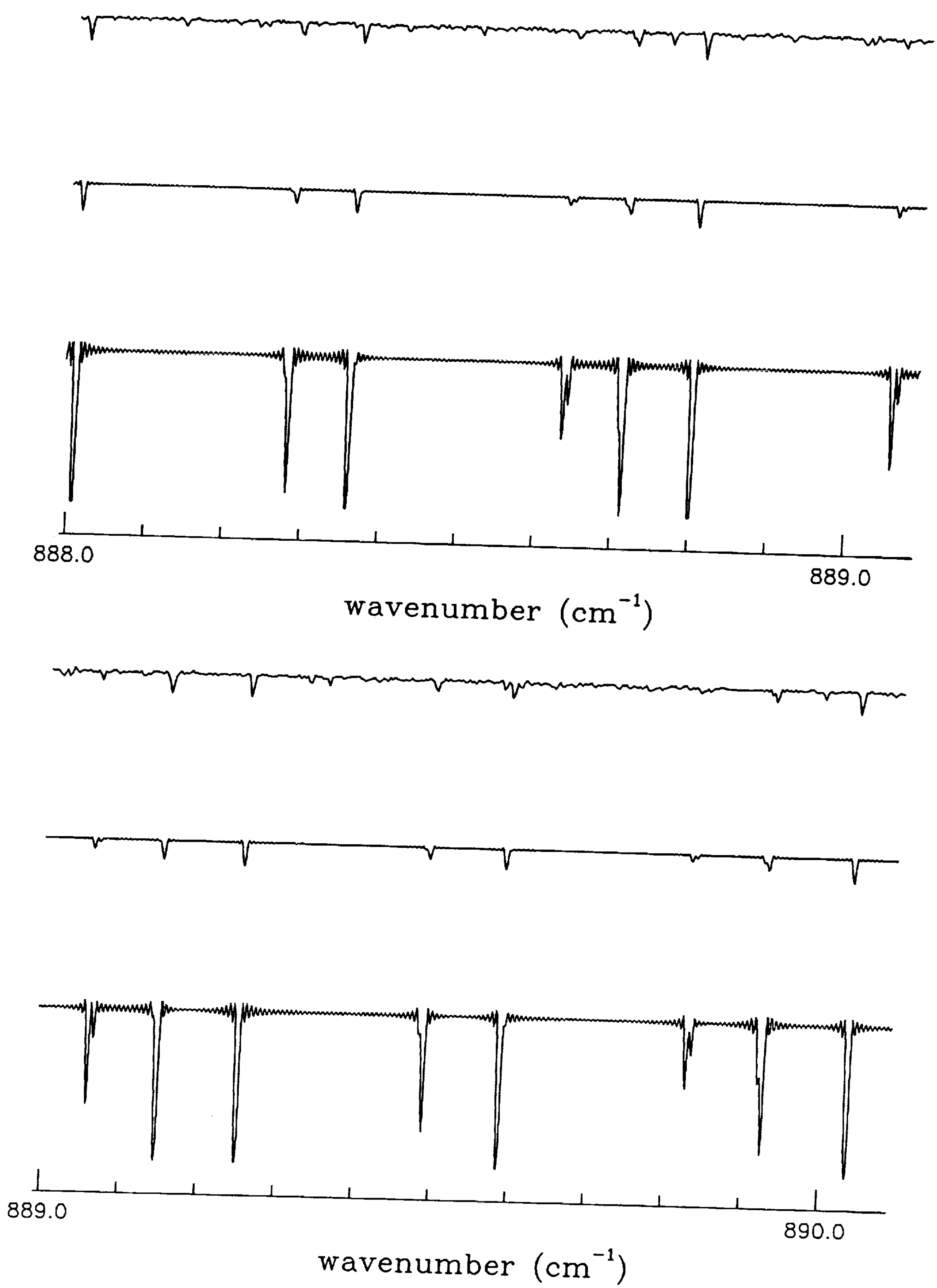
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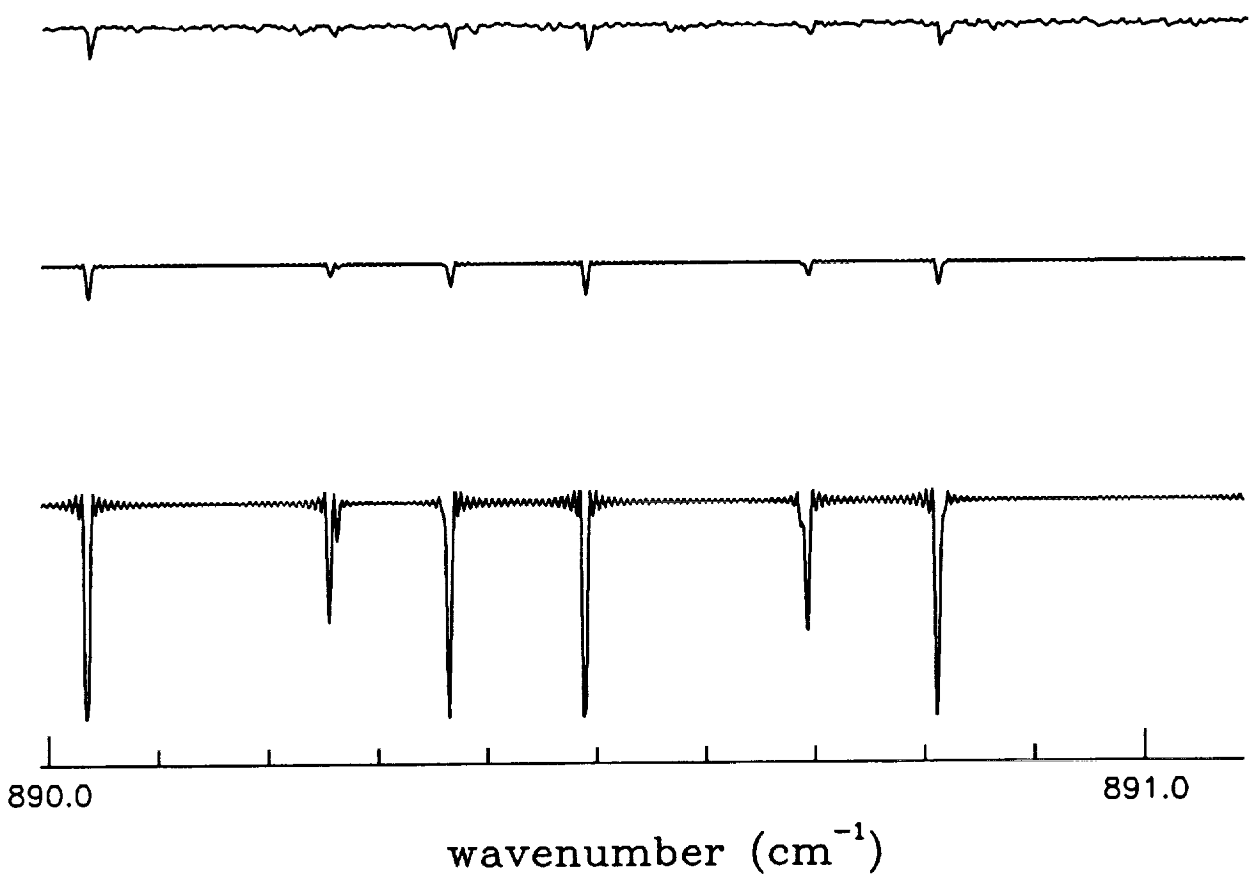
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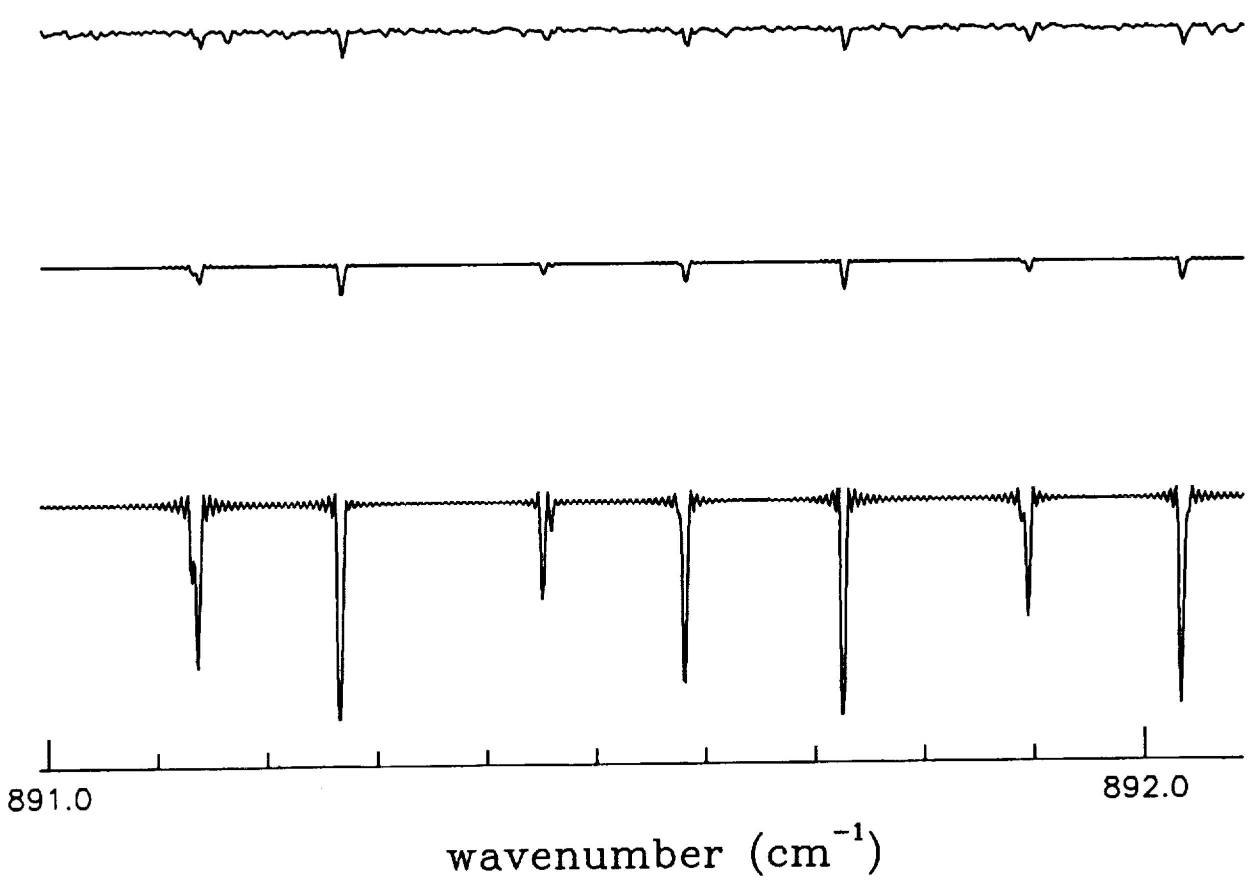
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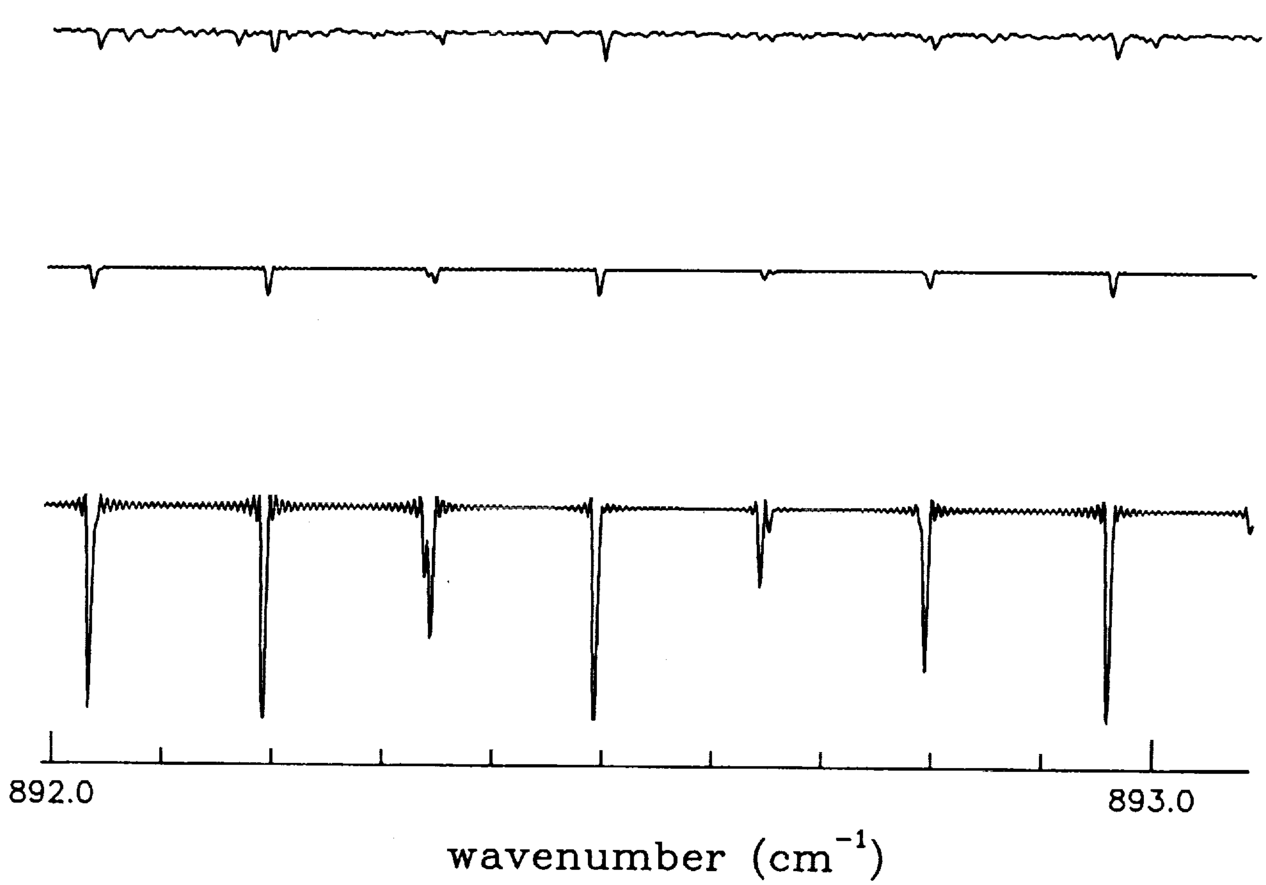
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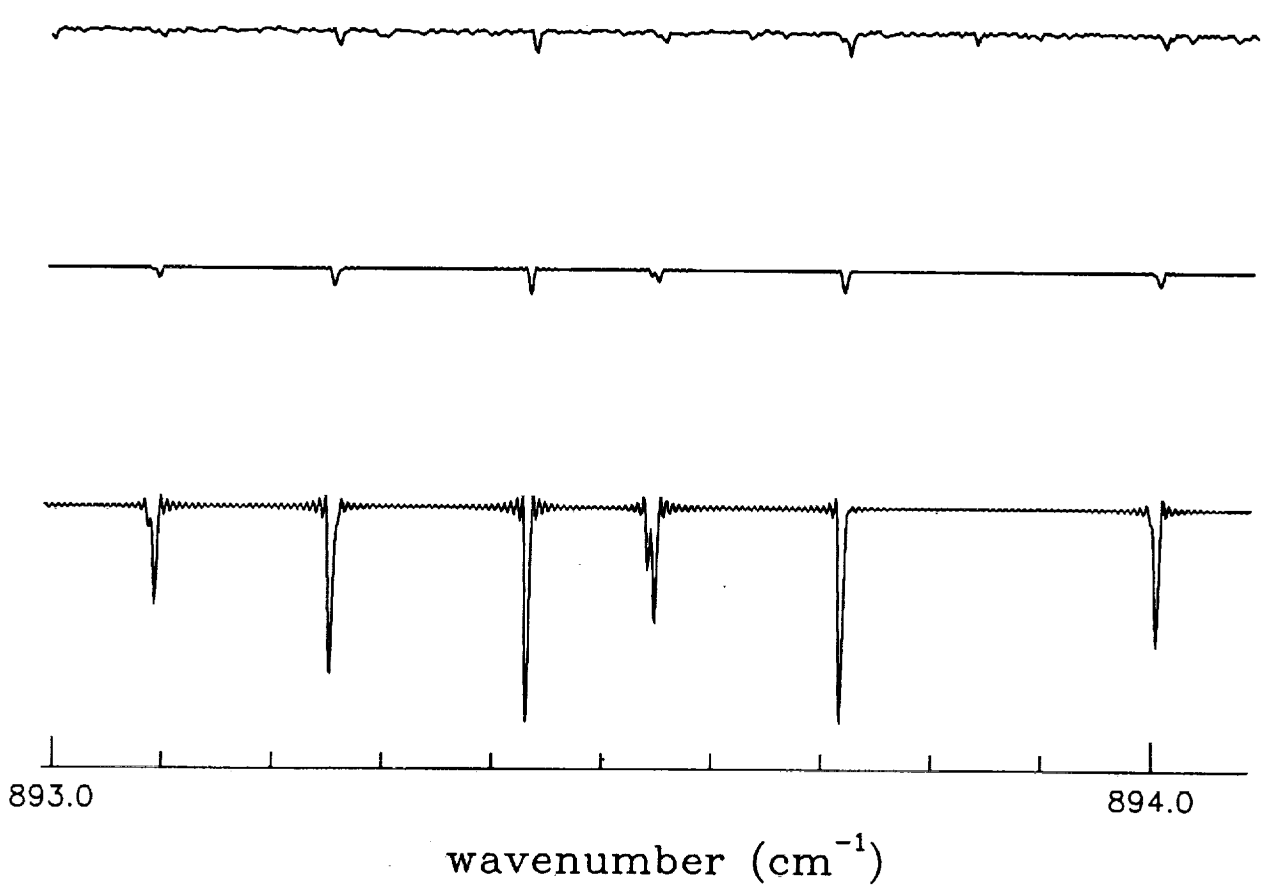
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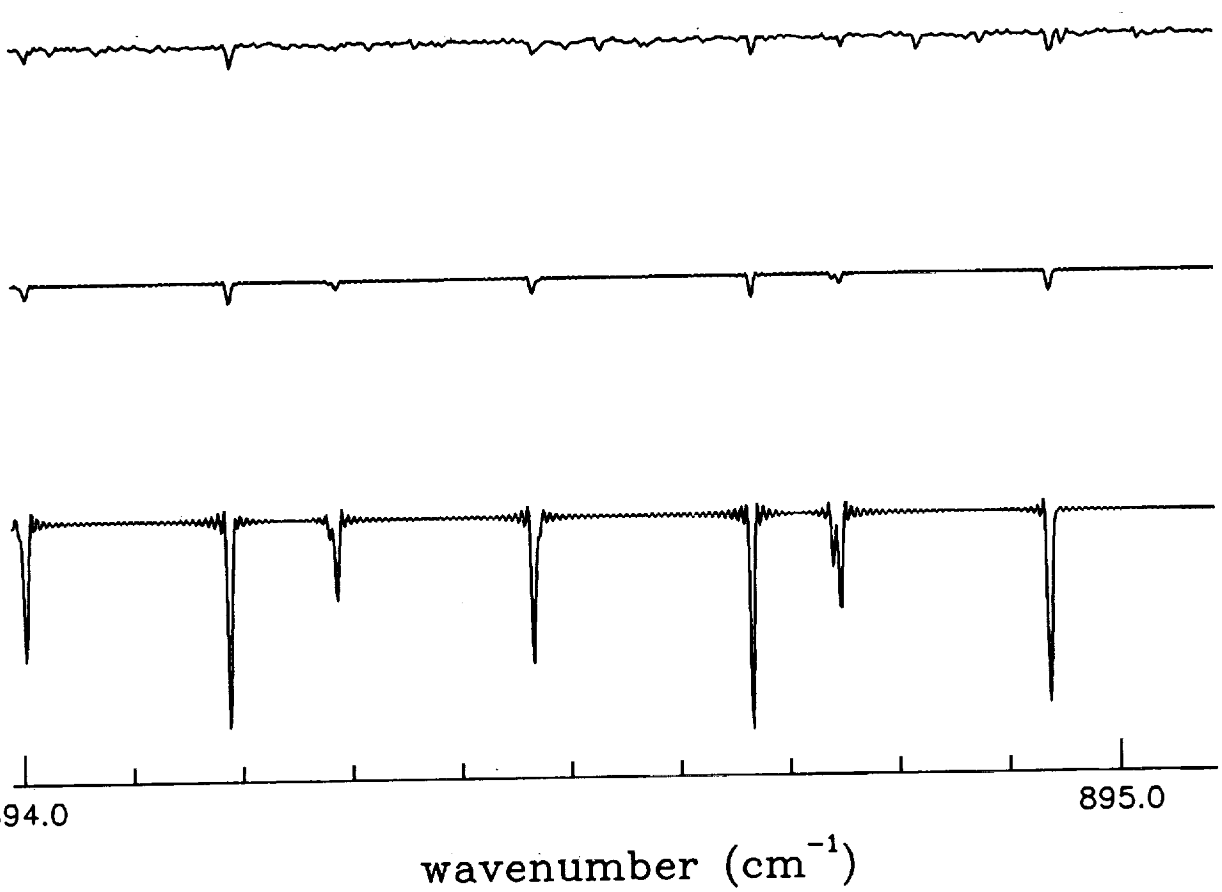
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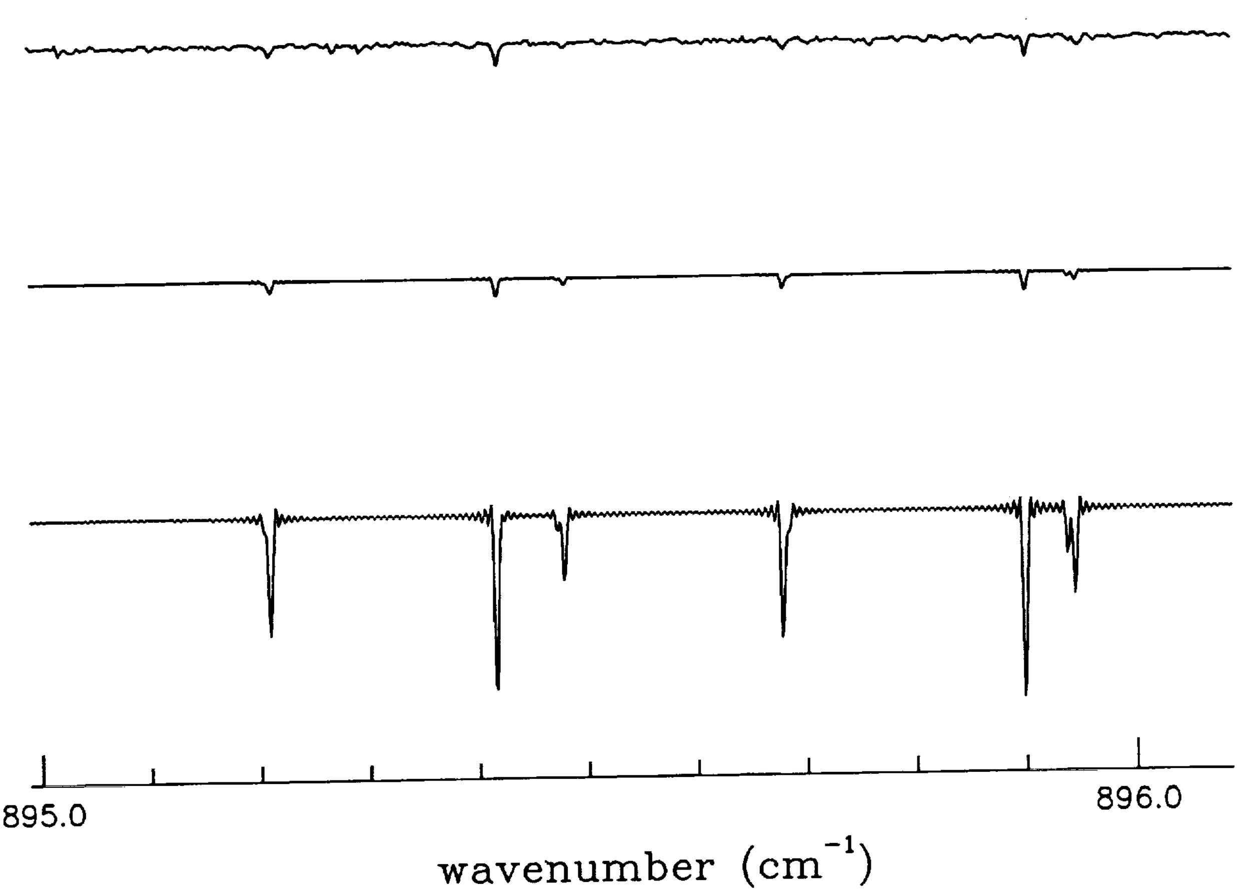
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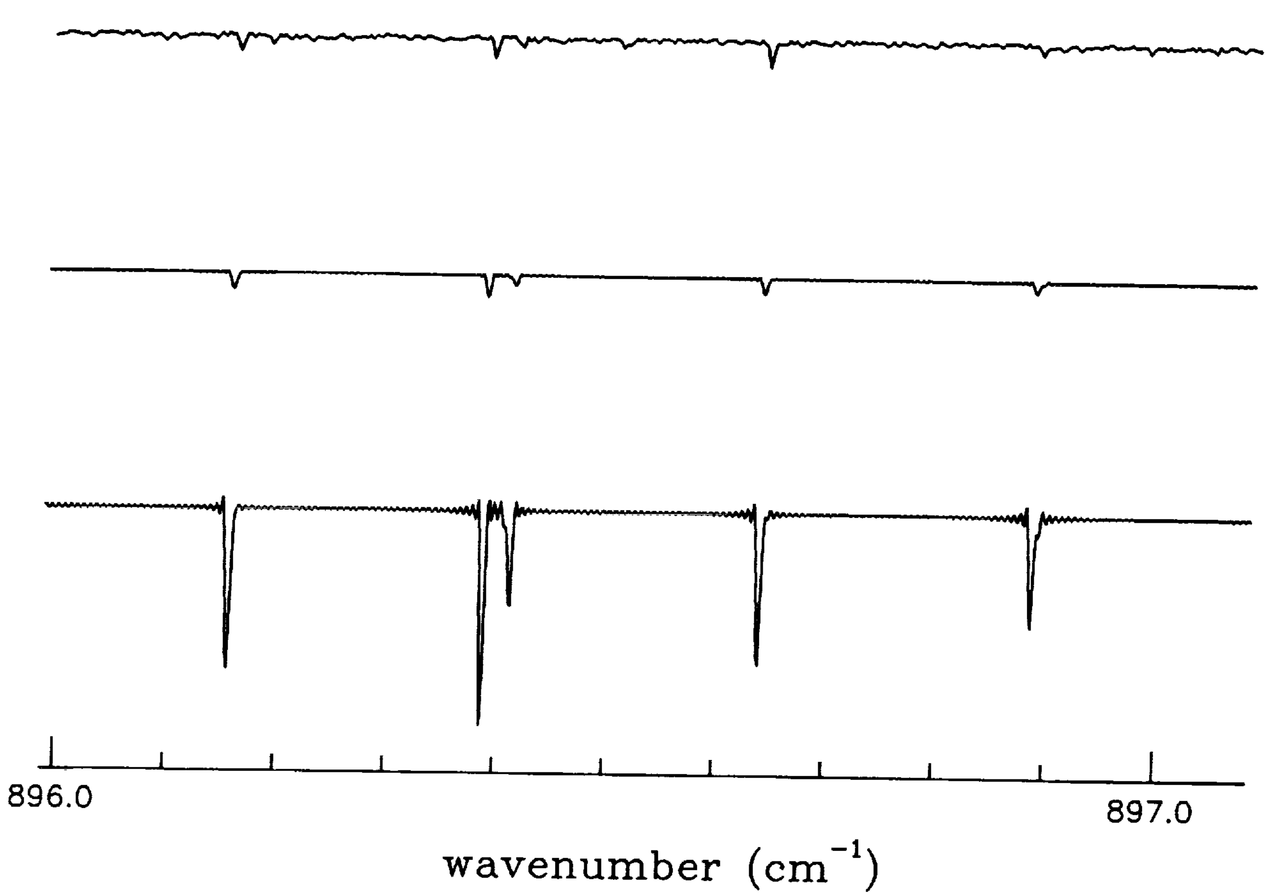
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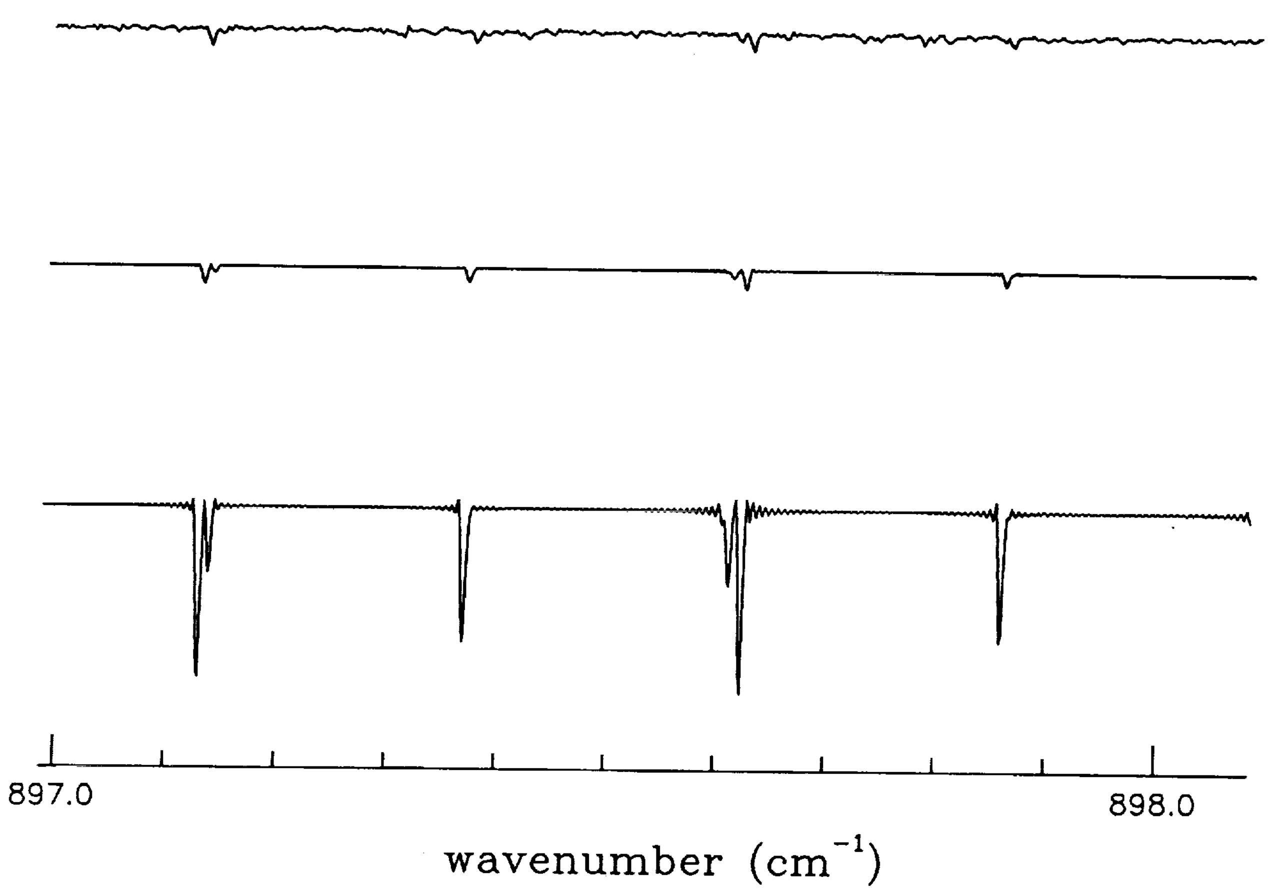
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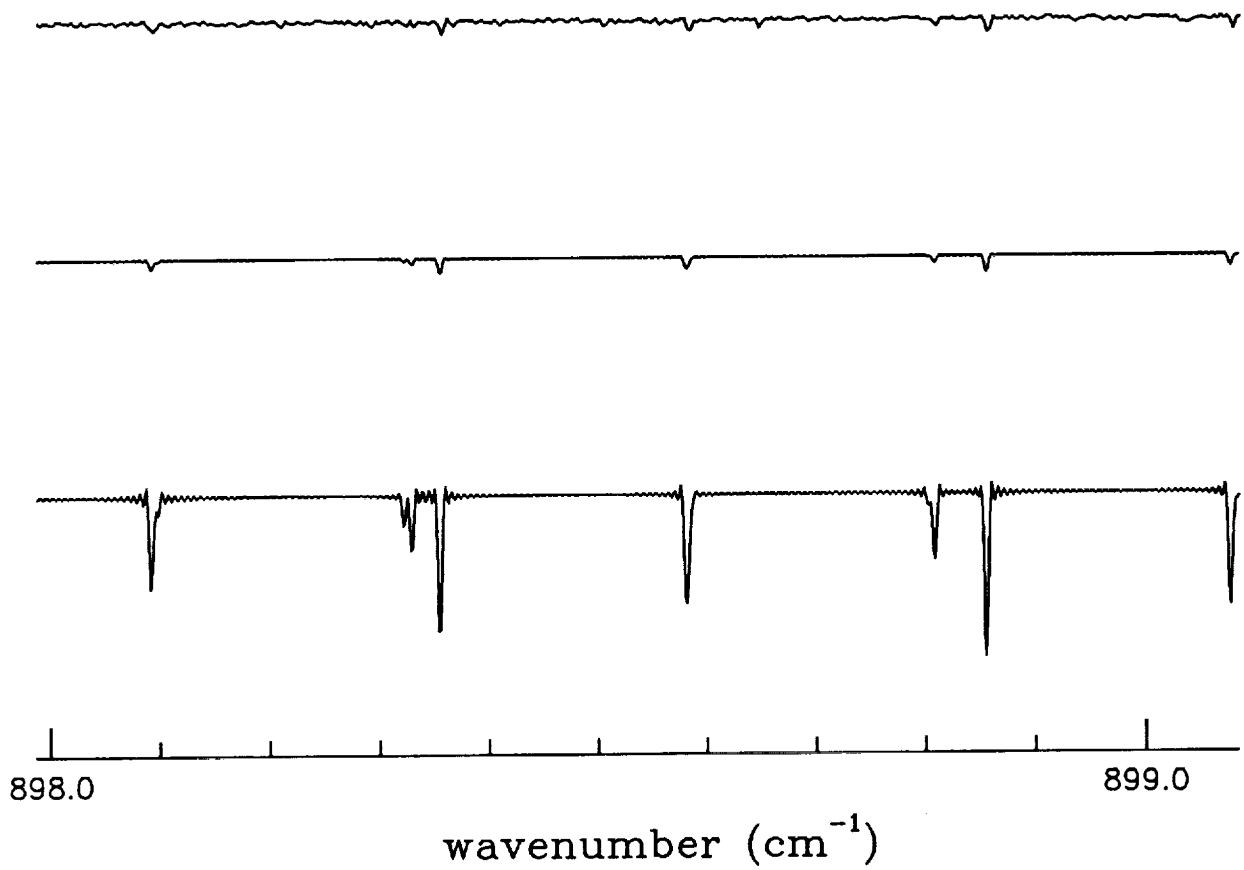

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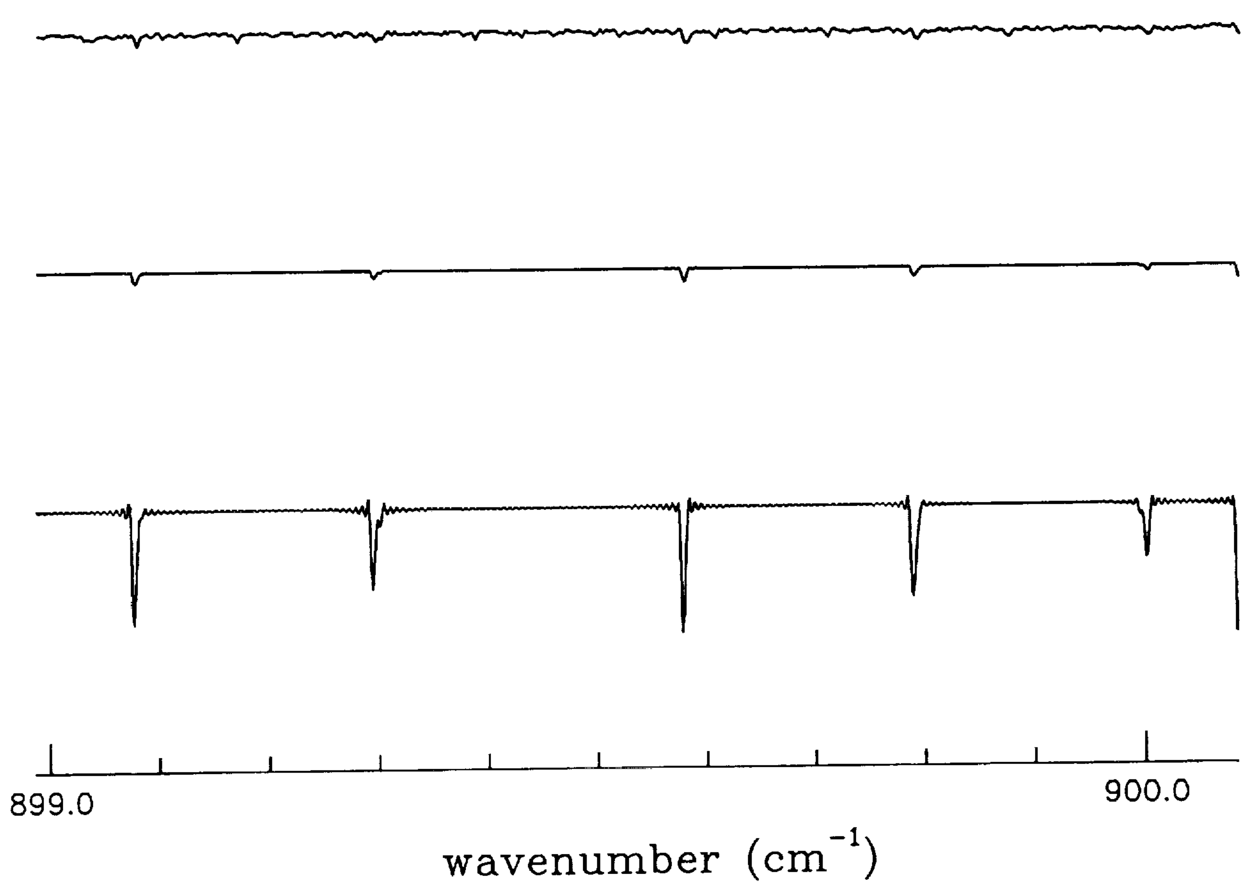

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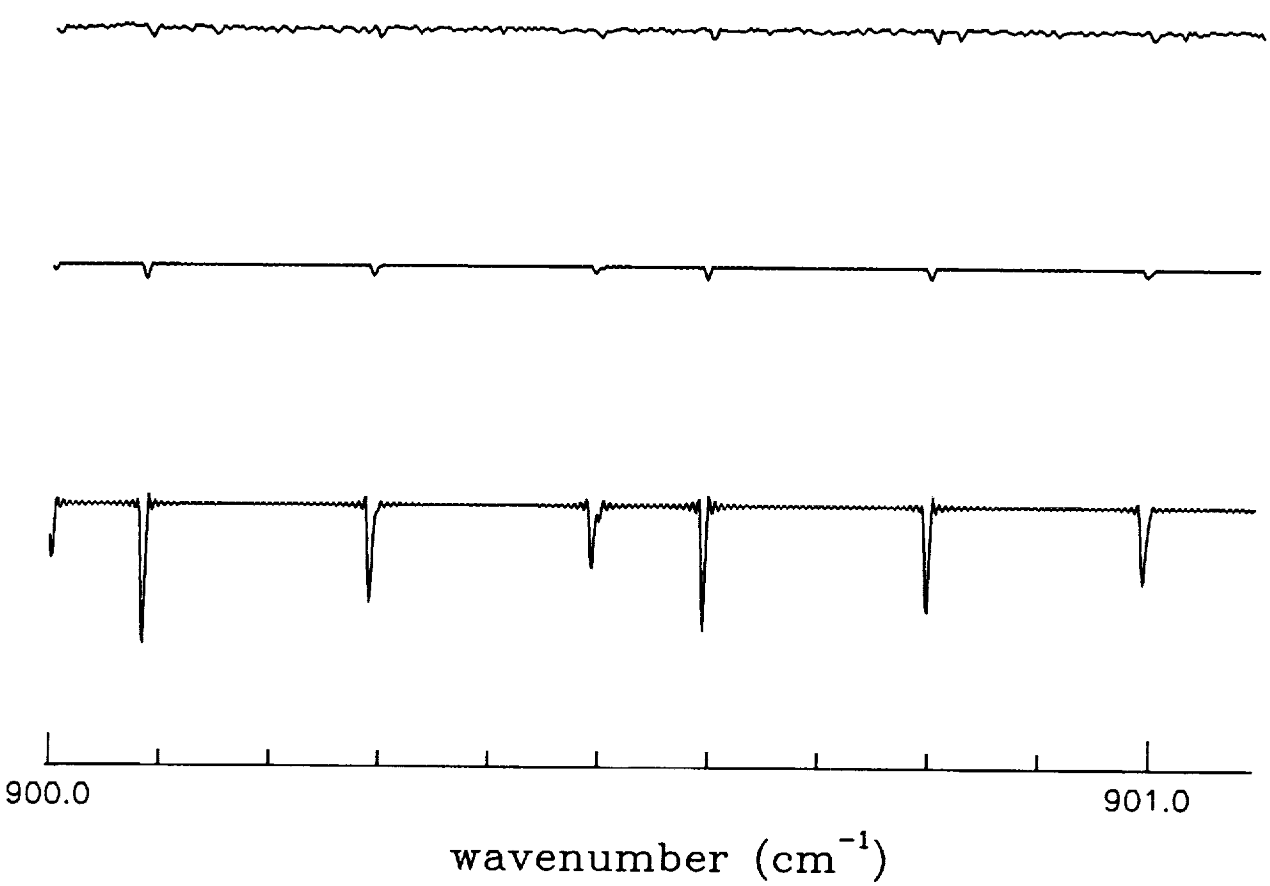
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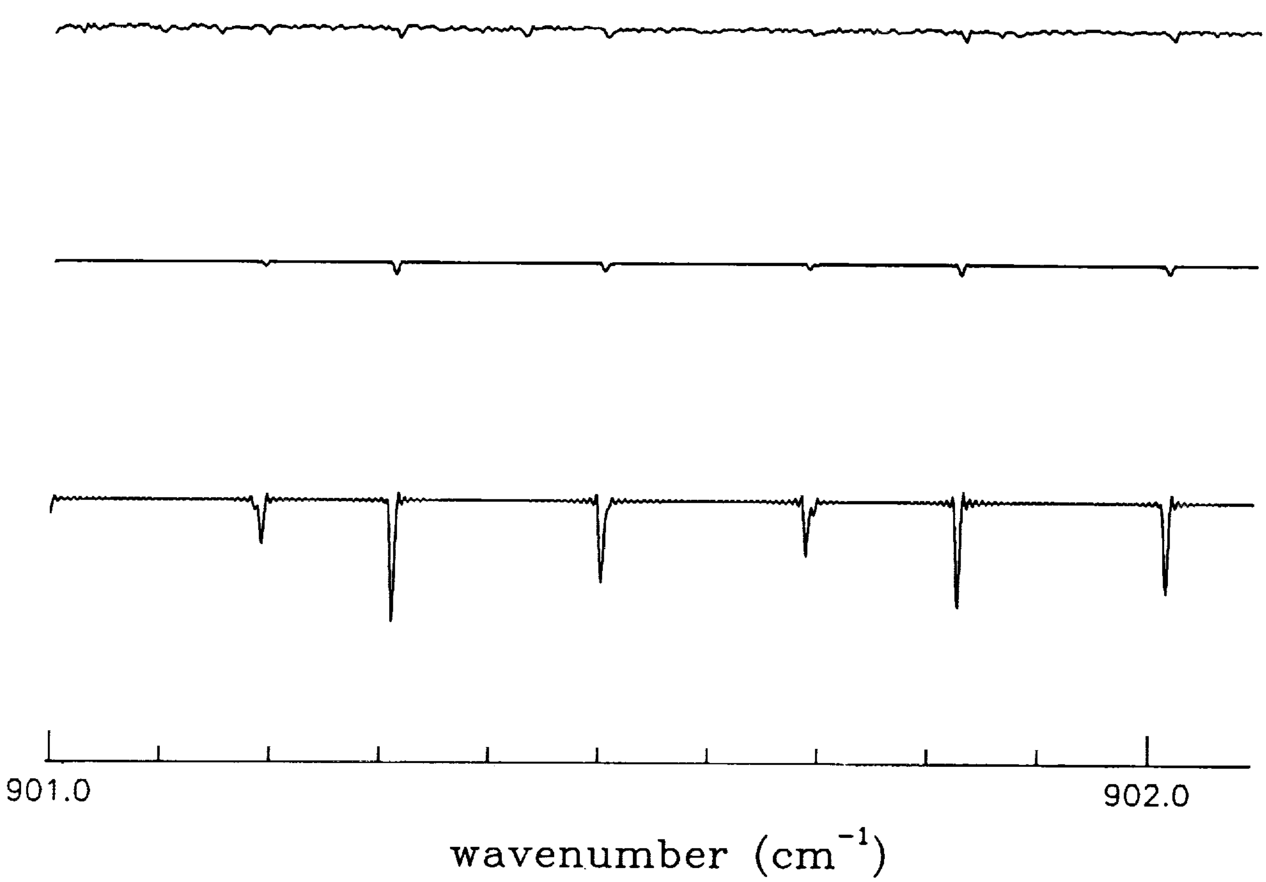
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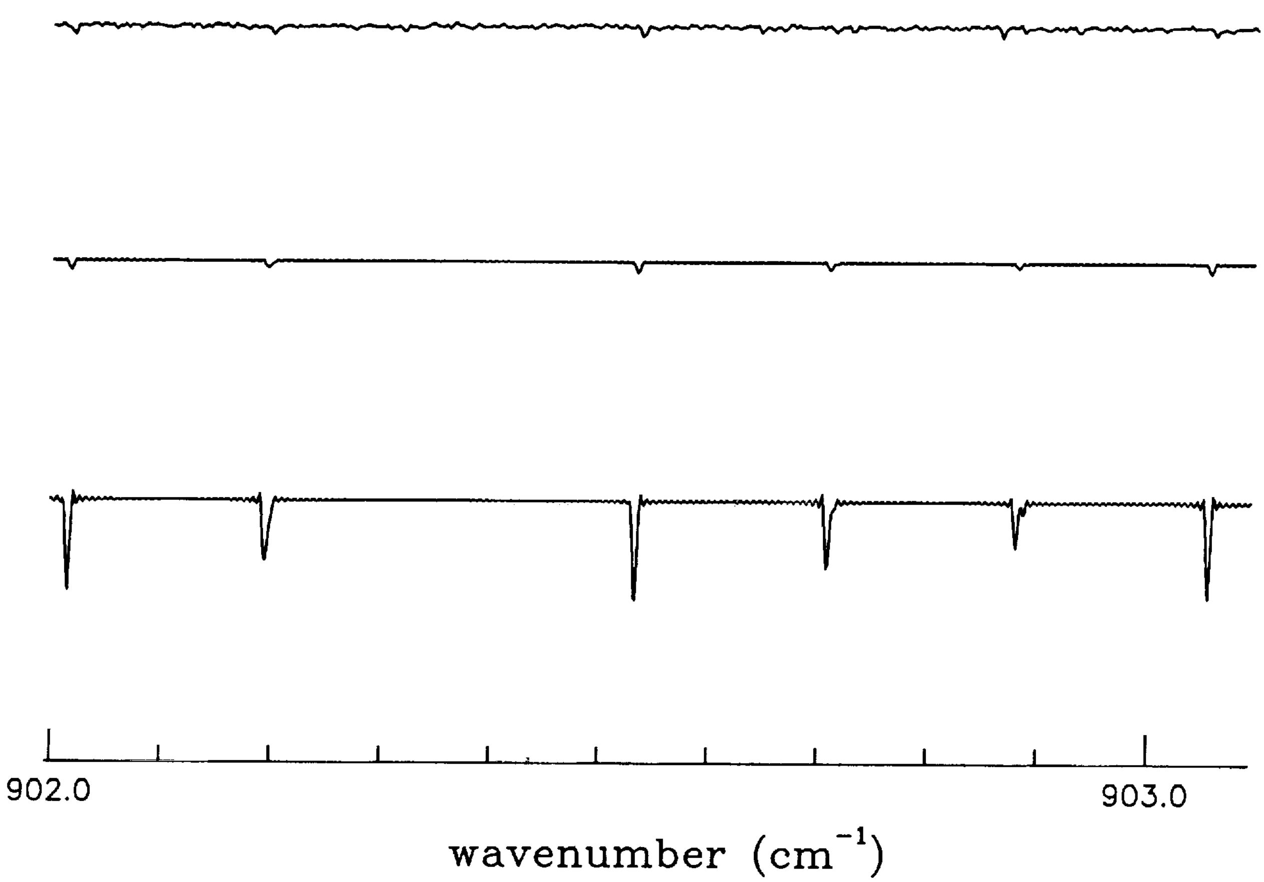
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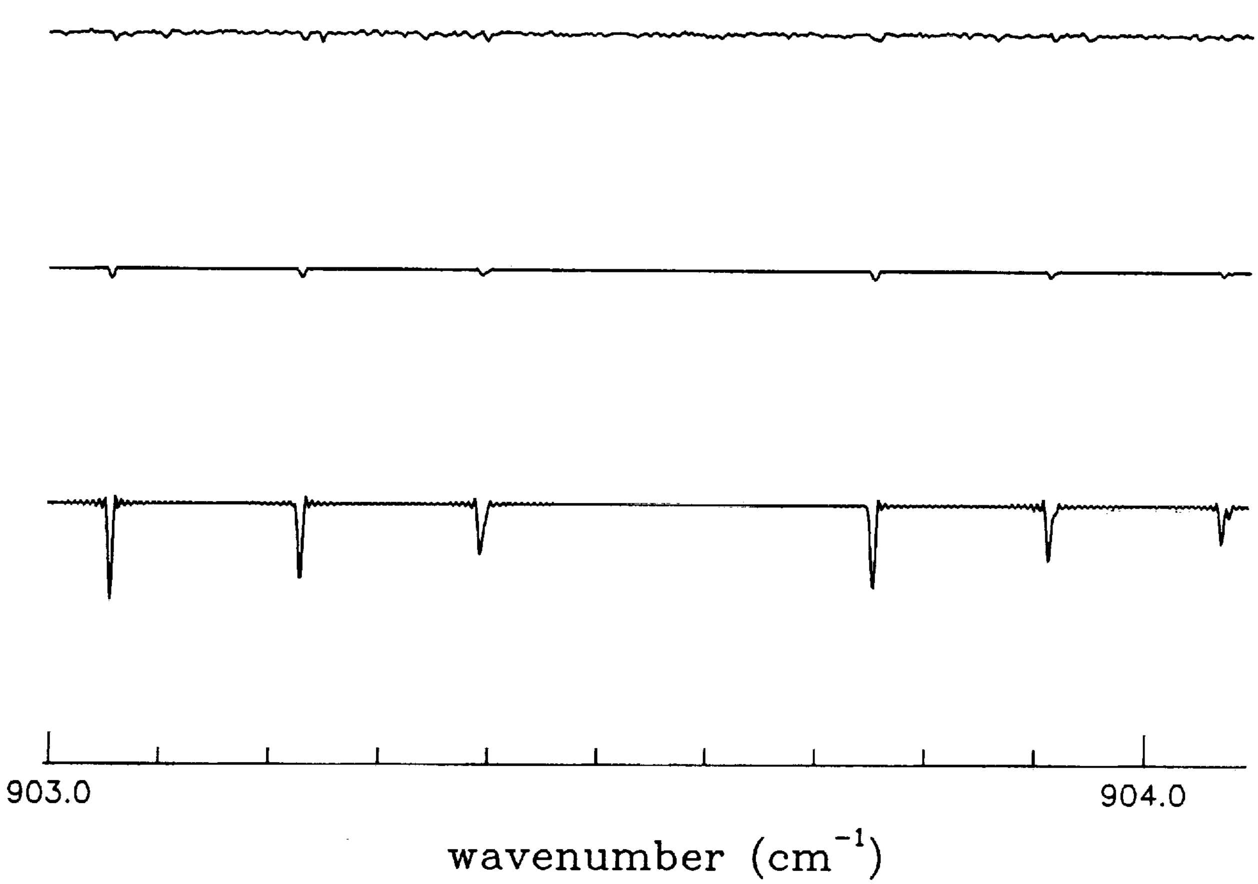
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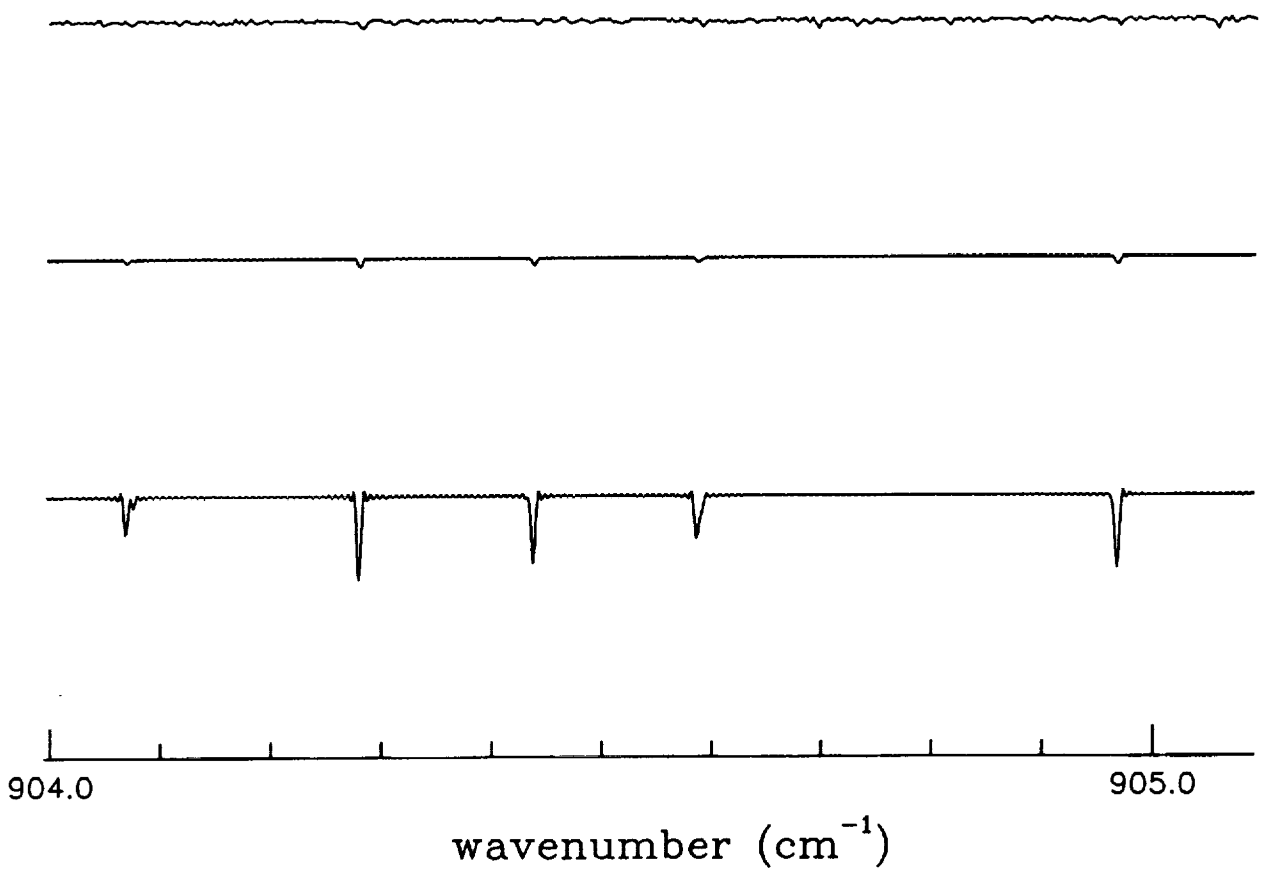
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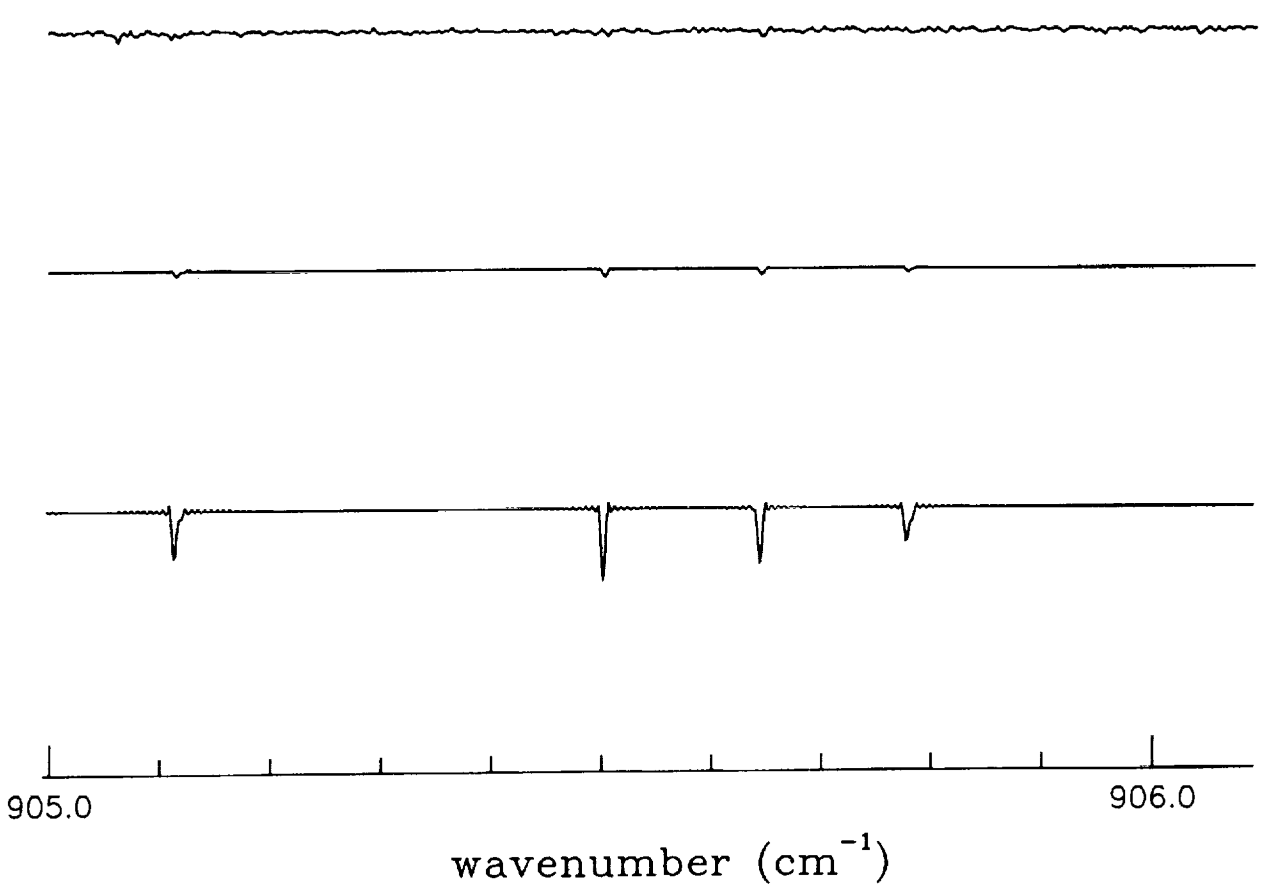
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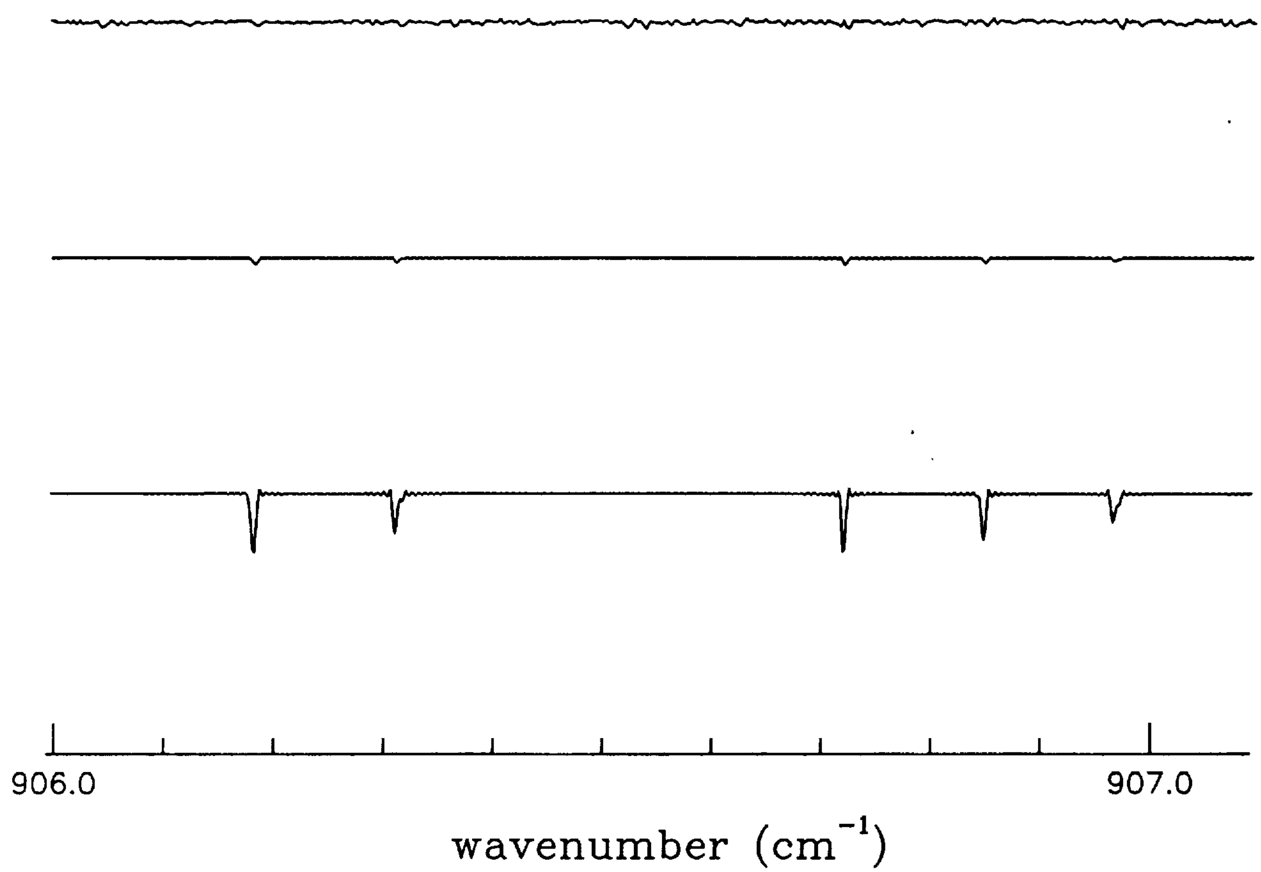
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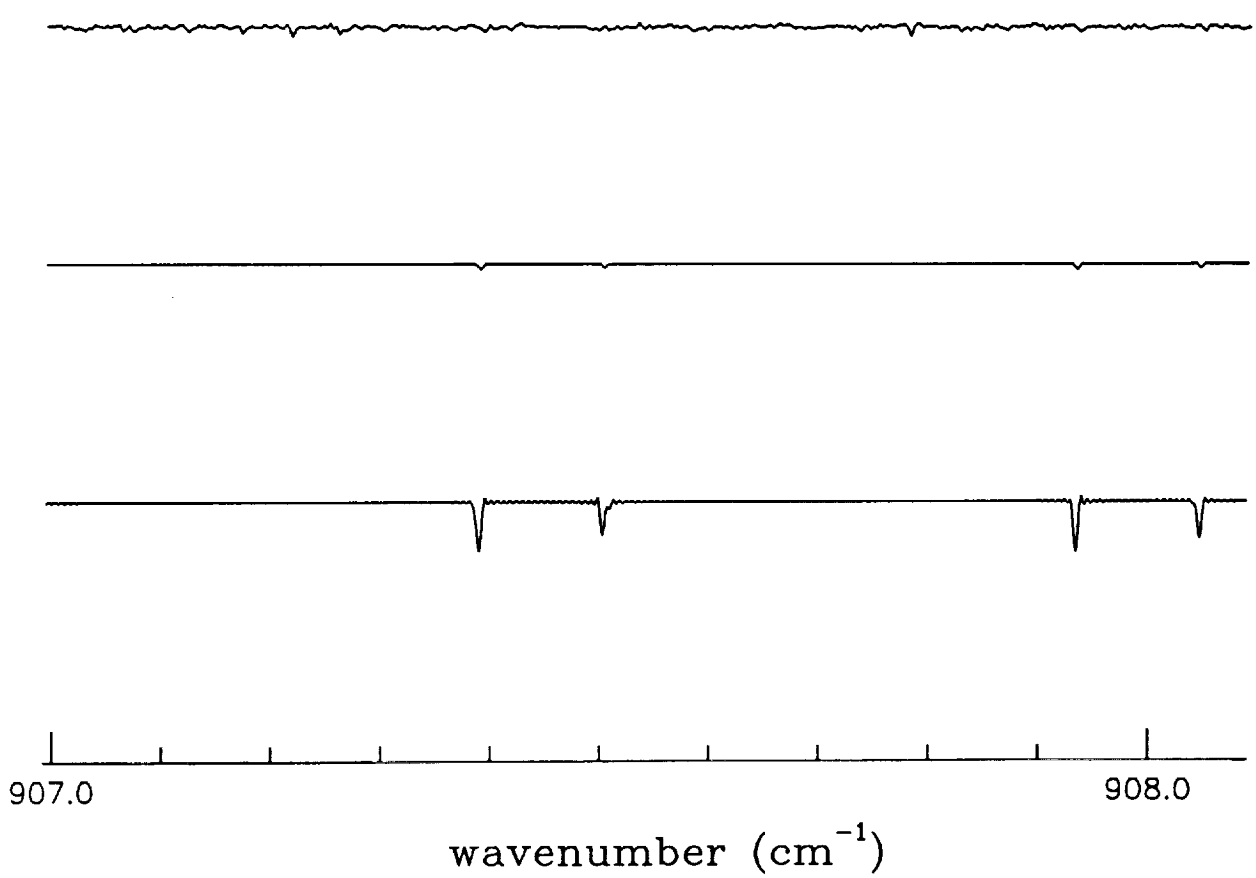
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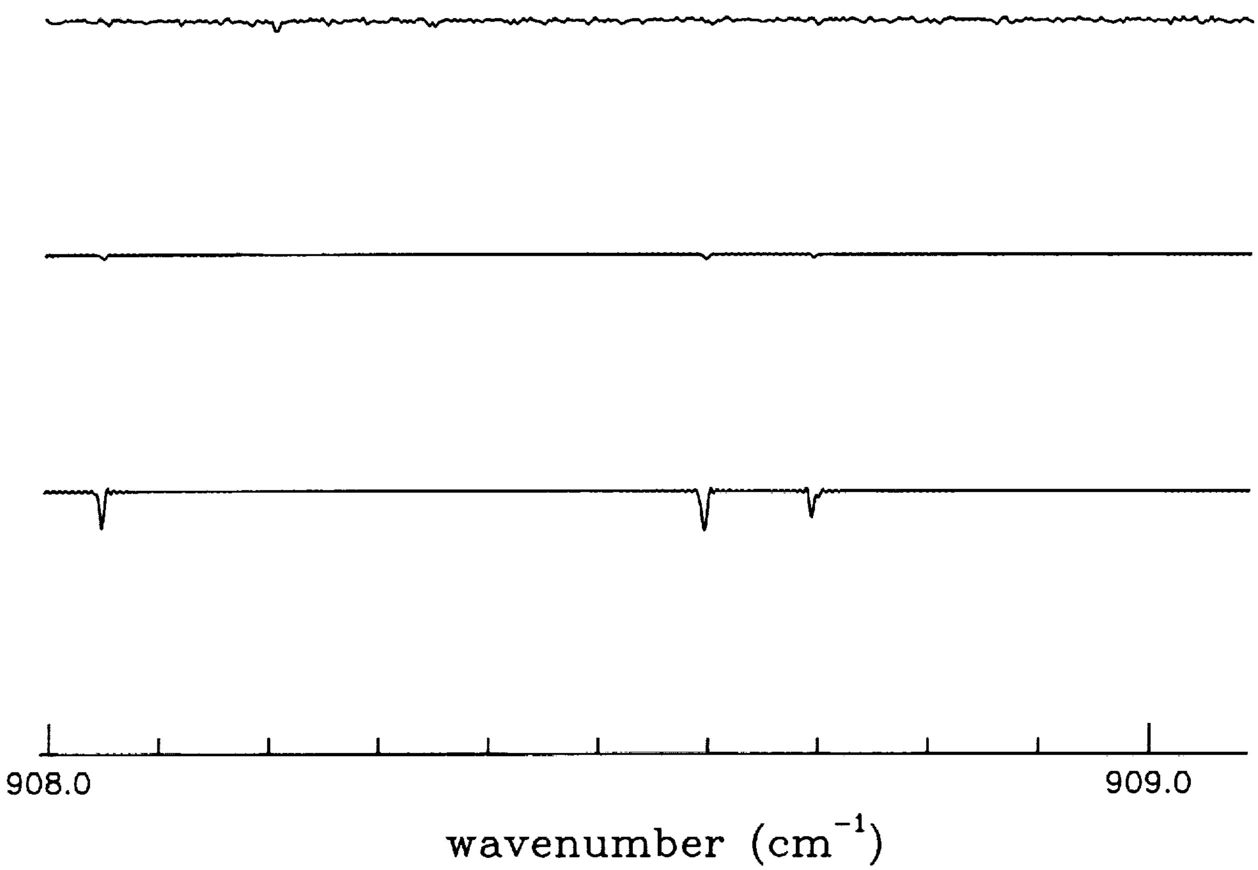
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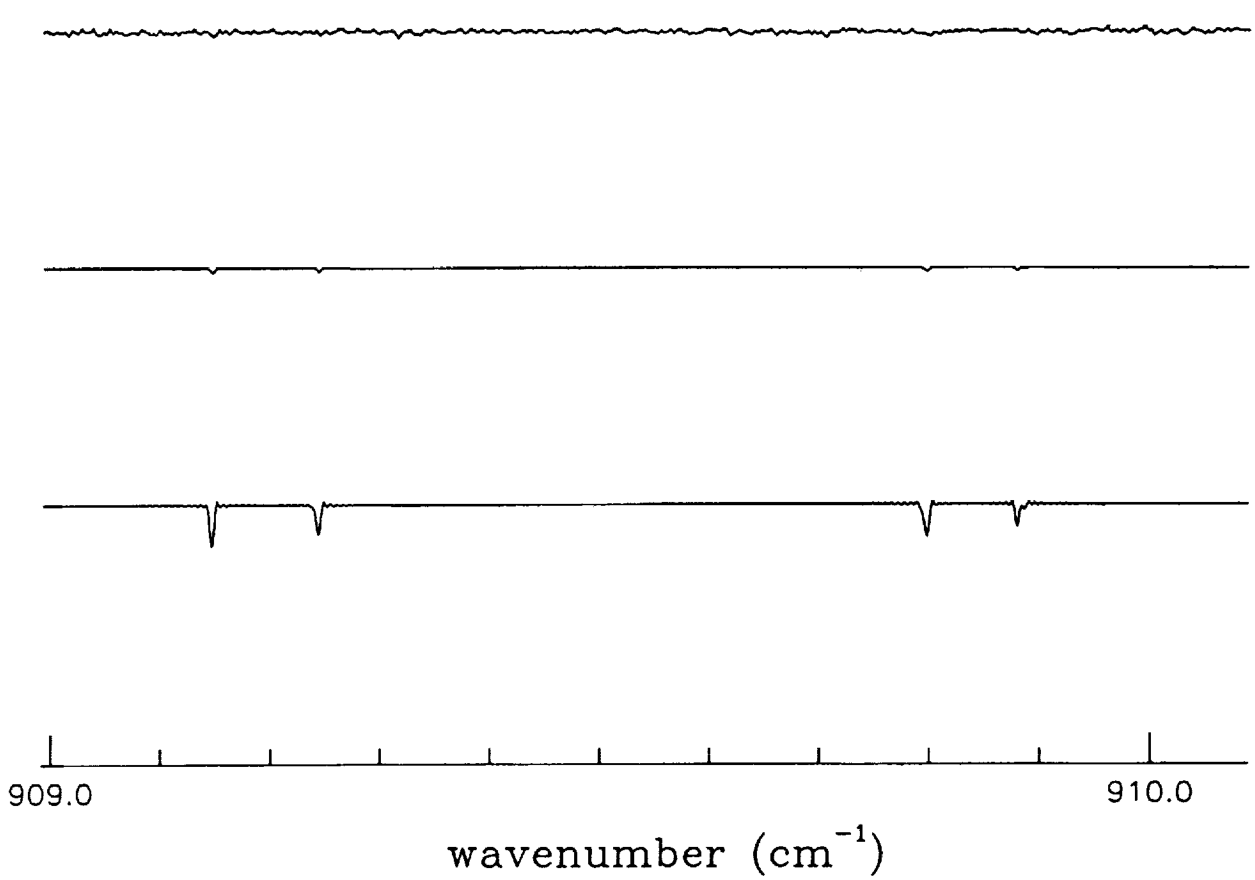
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wavenumber (cm⁻¹)

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13. ABSTRACT *(Maximum 200 words)*
The recent discovery of the minor isotopomer of ethane, $^{13}C^{12}CH_6$, in the planetary atmospheres of Jupiter and Neptune, added ethane to the molecules which can be used to determine isotopic $^{12}C^{13}C$ ratios for the jovian planets. The increased spectral resolution and coverage of the IR and far-IR instruments to be carried on the Cassini mission to Saturn and Titan may enable the detection of the minor isotopomer. Accurate frequency and cross-section measurements of the ν_{12} fundamental under controlled laboratory condition are important to interpret current and future planetary spectra. High resolution spectra of the minor isotopomer $^{13}C^{12}CH_6$ have been recorded in the 12.2 μm region using the Kitt Peak Fourier Transform (FTS) and the Goddard Tunable Diode Laser spectrometer (TDL). In a global fit to 19 molecular constants in a symmetric top Hamiltonian, transition frequencies of the ν_{12} fundamental ranging up to J=35 and K=20 have been determined with a standard deviation of less than 0.0005 cm^{-1}. From selected line intensity measurements, a vibrational dipole moment for the ν_{12} fundamental has been derived. Observed and calculated spectra covering the region from 740cm^{-1} and to 910cm^{-1} are presented. A compilation of transition frequencies, line intensities, and lower state energies are included for general use in the astronomical community.

14. SUBJECT TERMS
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