Line Positions of Assigned Rovibrational Transitions of $H^{13}C^{15}N$

ADDENDUM to:

The Bending Vibrational Ladder of $H^{13}C^{15}N$ by Hot Gas Emission Spectroscopy

Wolfgang Quapp, Vladlen Melnikov

Mathematisches Institut, Universität Leipzig, Augustus-Platz, D-04109 Leipzig, Germany

Georg Ch. Mellau

Physikalisch-Chemisches Institut, Justus-Liebig-Universität Gießen, Heinrich-Buff-Ring 58, D-35392 Gießen, Germany

– Version: June 12, 2001—

Table 1
200-000 Sasada-Yamada $H^{13}C^{15}N$ (1989)

observed	10^3(o-c)	J′	J″
6348.791900*	1.1724	37	38
6352.917300*	0.9463	36	37
6357.008200*	0.8275	35	36
6361.064600*	0.7128	34	35
6365.086500*	0.5001	33	34
6369.073600*	0.3886	32	33
6373.025800*	0.3787	31	32
6376.943200*	0.2719	30	31
6380.825600*	0.1708	29	30
6384.672800*	0.1795	28	29
6388.484900*	0.1028	27	28
6392.261700	0.0469	26	27
6396.003100	0.0192	25	26
6399.709000	0.0280	24	25
6403.379400	0.0168	23	24
6407.014100	0.0049	22	23
6410.613100	0.0241	21	22
6414.176300	0.0617	20	21
6417.703600	0.1033	19	20
6421.194800	0.0338	18	19
6424.650000	0.0369	17	18
6428.069100	0.0951	16	17
6431.451900	0.0898	15	16
6434.798300	0.0014	14	15
6438.108400	0.0089	13	14
6441.382000	0.0093	12	13
6444.619100	0.0234	11	12
6447.819500	0.0168	10	11
6450.983300	0.0446	9	10
6454.110200	0.0184	8	9
6457.200400	0.0664	7	8
6460.253600	0.0707	6	7
6463.269800	0.0649	5	6
6466.248900	0.0181	4	5
6469.190900	0.0014	3	4
6472.095700	0.0268	2	3
6474.963300	0.0079	1	2
6477.793600	0.0677	0	1
6483.341800	0.0159	1	0
6486.059700	0.0285	2	1
6488.740000	0.0142	3	2
6491.382700	0.0324	4	3
6493.987700	0.0410	5	4
6496.554900	0.0027	6	5

Table 1 continued
200-000 Sasada-Yamada $H^{13}C^{15}N$ (1989)

observed	10^3(o-c)	J′	J″
6499.084300	0.0430	7	6
6501.575900	0.0252	8	7
6504.029500	0.0957	9	8
6506.445200	0.1019	10	9
6508.822900	0.0926	11	10
6511.162400	0.2175	12	11
6513.463900	0.2276	13	12
6515.727200*	0.2751	14	13
6517.952200*	0.4133	15	14
6520.139000*	0.4966	16	15
6522.287500*	0.5807	17	16
6524.397600*	0.7224	18	17
6526.469400*	0.7796	19	18
6528.502600*	1.0117	20	19
6530.497400*	1.1789	21	20

THE RMS DEV = 0.000070 FOR 40 LINES

Table 2

0 11(11)0-0 10(10)0 HCNETS

observed	10^3(o-c)	J′	J″
769.266555	0.3496	11	10
774.843473*	1.9511	13	12
777.625818	0.1533	14	13
780.410812*	2.3511	15	14
785.967534	0.6400	17	16
788.745663	0.0742	18	17
794.293385*	3.8361	20	19
797.070369*	1.1890	21	20
799.846156	0.8992	22	21
805.396075*	4.3655	24	23
808.164598	0.3812	25	24
810.944922*	6.2803	26	25

THE RMS DEV = 0.000502 FOR 5 LINES

Table 3

0 10(10)0-09(9)0 HCNETS

observed	10^3(o-c)	J′	J″
672.305555*	3.7999	21	22
703.486183	0.4012	10	11
762.727580	0.5667	10	9
765.533042	0.2600	11	10
768.337253	0.7663	12	11
773.943249	0.5839	14	13
776.743309	0.7480	15	14
779.538095*	2.7259	16	15
787.925676	0.0126	19	18
793.507250	0.0328	21	20
796.294724	0.8556	22	21
799.082143	0.0700	23	22
801.868312*	1.1234	24	23
807.432450	0.2490	26	25
810.212771	0.5090	27	26
815.767476	0.0981	29	28
818.542706	0.1597	30	29
826.864852*	5.2656	33	32
829.635200*	6.3229	34	33

THE RMS DEV = 0.000473 FOR 13 LINES

Table 4

0 10(8)0-09(7)0 HCNETS

observed	10^3(o-c)	J′	J″
647.454249*	1.0390	24	25
650.263443*	6.4280	23	24
653.060469*	2.0341	22	23
655.871840*	2.1888	21	22
664.298567*	2.2353	18	19
669.935398*	6.0096	16	17
672.751963*	6.0221	15	16
675.567341*	3.3813	14	15
678.385736*	2.3222	13	14
684.027966*	1.4652	11	12
692.506917*	5.8294	8	9
740.705980	0.1009	8	7
743.548473	0.5927	9	8
746.393118	0.4729	10	9
749.237293	0.5093	11	10
752.082039	0.5922	12	11
754.925659	0.9407	13	12
757.772303	0.0947	14	13
760.621935*	3.6966	15	14
763.466246*	1.5892	16	15
766.318593*	7.1628	17	16
769.163792*	5.2660	18	17
772.005530	0.3820	19	18
777.701721	0.2925	21	20
780.550026	0.5292	22	21
783.397164	0.5670	23	22
786.246194	0.0924	24	23

THE RMS DEV = 0.000494 FOR 11 LINES

Table 5

09(9)0-08(8)0 DCNECS

observed	10^3(o-c)	J′	J″
759.067409	0.0387	10	9
764.701541*	1.5291	12	11
767.520934*	0.8726	13	12
770.335881	0.5600	14	13
773.152450	0.2685	15	14
775.965592*	1.6642	16	15
778.781037	0.6033	17	16
781.595722	0.4121	18	17
784.408211	0.0315	19	18
787.220935	0.5174	20	19
790.031696	0.1194	21	20
792.838378*	4.0401	22	21
795.652227	0.0176	23	22
798.462152*	0.9777	24	23
804.076928	0.3538	26	25
806.883190	0.2022	27	26
809.689140	0.6074	28	27
815.295964	1.0283	30	29
818.099533	0.3674	31	30
820.903286*	1.3600	32	31
826.503753	0.4164	34	33

THE RMS DEV = 0.000455 FOR 15 LINES

Table 6

09(9)0-08(8)0 HCNETS

observed	10^3(o-c)	J′	J″
663.196163*	9.5915	23	24
666.010727*	6.9383	22	23
668.830283	0.3131	21	22
671.652429*	7.9388	20	21
677.279844*	4.9016	18	19
682.908971	0.3959	16	17
685.723291*	3.1554	15	16
688.546332*	1.3831	14	15
694.187059*	3.4265	12	13
697.003484	0.2239	11	12
699.823721	0.4823	10	11
702.647031*	1.9637	9	10
756.248586	0.1371	9	8
759.068000	0.6297	10	9
764.701464*	1.6061	12	11
761.880215*	5.2813	11	10
767.520474	0.4126	13	12
770.336499	0.0579	14	13
773.152676	0.4945	15	14
775.967917	0.6607	16	15
778.780888	0.7523	17	16
781.594842	0.4678	18	17
784.407692	0.5505	19	18
787.219936	0.4815	20	19
790.031830	0.0146	21	20
792.838449*	3.9691	22	21
795.652325	0.1156	23	22
798.461970	0.7957	24	23
801.268906	0.3936	25	24
804.076956	0.3818	26	25
806.882797	0.1907	27	26
809.687173*	1.3595	28	27
812.493502	0.2997	29	28
815.299549*	2.5566	30	29
818.099255	0.6454	31	30
820.899923*	2.0029	32	31
823.699256*	3.8141	33	32
826.503793	0.4564	34	33
829.302530	0.2006	35	34
832.100283*	0.9771	36	35

THE RMS DEV = 0.000450 FOR 23 LINES

Table 7

09(7)0-08(6)0 DCNECS

observed	10^3(o-c)	J′	J″
737.255054	0.2432	8	7
740.105574	0.2961	9	8
748.664772	0.4834	12	11
751.520523	0.3759	13	12
754.377661	0.3151	14	13
757.235871	0.0404	15	14
760.094395	1.1507	16	15
762.956791	0.3561	17	16
765.812542*	5.8978	18	17
768.680639	0.8626	19	18
771.544970	0.5899	20	19
774.409196*	1.3572	21	20
777.274547*	1.8715	22	21
783.011474*	0.9660	24	23
785.881533*	2.9332	25	24
788.747381	0.0819	26	25
791.611790*	4.7460	27	26
794.480986*	5.2532	28	27
797.357480*	1.1445	29	28

THE RMS DEV = 0.000537 FOR 11 LINES

Table 8

09(7)0-08(6)0 HCNETS

observed	10^3(o-c)	J′	J″
627.656670*	0.8093	30	31
630.424811*	1.8752	29	30
633.197756	0.1603	28	29
638.747066	0.4581	26	27
652.656092	0.0064	21	22
658.233936*	1.4949	19	20
680.642512	0.4598	11	12
691.901084	0.7995	7	8
737.255052	0.2452	8	7
740.104846	0.4318	9	8
748.664241	0.0475	12	11
751.519947	0.2000	13	12
754.376926	0.4198	14	13
757.236944	1.1134	15	14
760.095716	0.1702	16	15
762.956038	0.3968	17	16
765.817850	0.5898	18	17
768.682143	0.6413	19	18
771.545548	0.0119	20	19
774.411117	0.5637	21	20
777.276369	0.0495	22	21
783.010677	0.1690	24	23
788.745616*	1.6830	26	25
791.612173*	4.3630	27	26
794.481649*	4.5902	28	27
797.357745*	1.4095	29	28
800.227236	0.4867	30	29
803.094927*	2.4762	31	30
805.967731	0.4863	32	31
811.706933*	3.0583	34	33

THE RMS DEV = 0.000466 FOR 21 LINES

Table 9

08(6)0-07(5)0 DCNECS

observed	10^3(o-c)	J′	J″
728.175026	0.4196	6	5
731.025860	0.3157	7	6
733.878054	0.0974	8	7
736.732942	0.2734	9	8
739.590708	0.0255	10	9
742.450513	0.0170	11	10
745.312673	0.0757	12	11
748.176062	0.8630	13	12
751.044003	0.5870	14	13
753.914297*	2.2931	15	14
756.783048	0.4277	16	15
759.655043	0.1510	17	16
765.406513	0.5973	19	18
771.163241	0.3025	21	20
774.044521	0.2171	22	21
776.926429	0.9723	23	22
779.808730*	2.7090	24	23
782.694038*	2.7148	25	24
785.578457*	4.7821	26	25
788.469023*	1.7658	27	26
791.356764*	2.5222	28	27
794.248794	0.1856	29	28
797.138968	0.3444	30	29
800.032123*	2.9322	31	30
805.820448*	9.0908	33	32

THE RMS DEV = 0.000438 FOR 16 LINES

Table 10

08(6)0-07(5)0 HCNETS

observed	10^3(o-c)	J′	J″
638.472068*	1.9703	25	26
643.989445	0.6301	23	24
649.516961*	3.8136	21	22
652.290514	0.2306	20	21
657.833253*	4.5836	18	19
660.615114	0.8368	17	18
663.397754	0.7594	16	17
666.184361*	3.3707	15	16
668.967929	0.0271	14	15
671.754615*	3.2913	13	14
674.551732	0.8810	12	13
677.343648*	3.1484	11	12
680.144604*	1.1418	10	11
682.943780*	3.9188	9	10
728.174805	0.6406	6	5
731.024834	0.7102	7	6
733.877666	0.4854	8	7
736.732496	0.7194	9	8
739.591016	0.3335	10	9
742.450853	0.3570	11	10
745.313008	0.4107	12	11
748.177616	0.6909	13	12
751.043699	0.2830	14	13
756.783337	0.7167	16	15
759.655595	0.4009	17	16
765.406244	0.3283	19	18
768.283877	0.0303	20	19
774.044283	0.4551	22	21
776.926227*	1.1743	23	22
779.810046*	1.3930	24	23
782.695452*	1.3008	25	24
785.579111*	4.1281	26	25
788.470191	0.5978	27	26
791.356624*	2.6622	28	27
794.248393	0.2153	29	28
797.138890	0.2664	30	29
800.031853*	2.6622	31	30
802.922297*	2.1398	32	31

THE RMS DEV = 0.000536 FOR 22 LINES

Table 11

08(6)0-07(5)0 HCNETS

observed	10^3(o-c)	J′	J″
711.247893*	7.4975	9	9
711.285025*	2.0342	10	10
711.314040	0.7889	11	11
711.378106*	3.5274	13	13
711.419930	0.2411	14	14
711.462303*	2.0318	15	15
711.507298*	3.9586	16	16
711.551250*	2.4007	17	17
711.593712*	3.0410	18	18
711.645633*	1.3663	19	19
711.700444	0.9111	20	20
711.753204*	1.0900	21	21
711.810974	0.2447	22	22
711.866915*	3.3227	23	23
711.929598*	1.6784	24	24
711.994774*	0.5200	25	25
712.054095*	4.9877	26	26
712.194279*	0.3749	28	28
712.260618*	3.0606	29	29
712.336741*	1.8752	30	30
712.415594*	8.2668	31	31
712.491208*	0.2985	32	32
712.556227*	0.7846	33	33
712.636333*	5.5971	34	34
712.716429*	9.8513	35	35

THE RMS DEV = 0.000627 FOR 4 LINES

Table 12

08(8)0-07(7)0 DCNECS

observed	10^3(o-c)	J′	J″
749.844853	0.0572	8	7
752.671884	0.0343	9	8
755.499334	0.0361	10	9
758.327438	0.1188	11	10
761.155490	0.1696	12	11
763.985843*	1.4879	13	12
766.813189	0.1804	14	13
769.643019	0.3510	15	14
772.471829	0.3873	16	15
775.302235	0.2539	17	16
778.131751	0.1785	18	17
780.961581	0.4491	19	18
783.792301	0.0488	20	19
786.617632*	4.9337	21	20
789.453086	0.1439	22	21
792.283099	0.2542	23	22
795.114081	0.3083	24	23
797.944435	0.2604	25	24
803.604252	0.5774	27	26
806.435495	0.4579	28	27
809.264436	0.7004	29	28
812.095678	0.5697	30	29
817.754659	0.0610	32	31
820.584594	0.5101	33	32
823.413351	0.0269	34	33
831.901246*	1.2507	37	36
727.364746	0.1751	16	16
727.379002	0.0860	17	17
727.394120	0.3840	18	18
727.411043	0.2164	19	19
727.428568	0.5041	20	20
727.465109	0.2088	22	22
727.482137*	3.2162	23	23
727.506437	0.0962	24	24
727.528434	0.1430	25	25
727.550877	0.3378	26	26
727.573921*	1.2027	27	27
727.625318	0.6269	29	29
727.652835	0.0473	30	30
727.681215	0.3596	31	31
727.710249	0.3714	32	32
727.771089	0.0378	34	34
727.836193	0.5557	36	36

THE RMS DEV = 0.000331 FOR 37 LINES

Table 13

08(8)0-07(7)0 HCNETS

observed	10^3(o-c)	J′	J″
637.632485*	3.6498	31	32
640.408860	0.0566	30	31
648.739695	0.4213	27	28
651.521601	0.0919	26	27
654.308167*	3.1958	25	26
657.090236	0.2211	24	25
662.665371*	1.9468	22	23
665.454598*	4.0024	21	22
671.049004*	2.3656	19	20
676.646001*	4.3383	17	18
679.442092	0.4140	16	17
685.046662	0.1807	14	15
693.466337*	1.4196	11	12
749.844849	0.0532	8	7
752.671661	0.1886	9	8
755.499352	0.0181	10	9
758.327556	0.2368	11	10
761.155643	0.0166	12	11
763.984550	0.1949	13	12
766.813693	0.3235	14	13
769.642305	0.3629	15	14
772.472085	0.1313	16	15
775.301961	0.0200	17	16
778.131643	0.2865	18	17
780.961729	0.3011	19	18
783.792138	0.1141	20	19
786.622627	0.0612	21	20
789.453167	0.2249	22	21
792.283446	0.0927	23	22
795.113904	0.1313	24	23
797.944239	0.0644	25	24
800.774716	0.1813	26	25
803.604869	0.0395	27	26
806.435170	0.1329	28	27
809.265756	0.6195	29	28
812.095316	0.2077	30	29
814.925177	0.2426	31	30
817.754854	0.2560	32	31
820.584292	0.2081	33	32
823.413456	0.0780	34	33
826.239266*	3.2022	35	34
831.898679*	1.3162	37	36
834.730029*	1.6136	38	37

THE RMS DEV = 0.000230 FOR 32 LINES

Table 14

08(8)0-07(7)0 HCNETS

observed	10^3(o-c)	J′	J″
727.280743	0.7375	8	8
727.296321	0.3569	10	10
727.302500*	2.7264	11	11
727.326546	0.2048	13	13
727.338536	0.3319	14	14
727.351730	0.7848	15	15
727.364854	0.2831	16	16
727.378652	0.4360	17	17
727.394101	0.4030	18	18
727.410118	0.7085	19	19
727.428078	0.0141	20	20
727.444541*	1.6836	21	21
727.465178	0.1398	22	22
727.484564	0.7892	23	23
727.506175	0.1657	24	24
727.528132	0.1589	25	25
727.550738	0.4768	26	26
727.574185	0.9387	27	27
727.600145	0.1153	28	28
727.626099	0.1540	29	29
727.652090	0.7923	30	30
727.681690	0.8346	31	31
727.711118*	1.2404	32	32
727.745693*	5.7298	33	33
727.772334	1.2071	34	34
727.805117*	1.7334	35	35
727.836536	0.2127	36	36
727.872976*	1.7377	37	37
727.906782	0.0859	38	38
727.947126*	3.4717	39	39
728.019988	0.7745	41	41
728.058545*	2.5727	42	42
728.103011	0.3154	43	43

THE RMS DEV = 0.000557 FOR 25 LINES

Table 15

02(2F)1-01(1F)1 DCNECS

observed	10^3(o-c)	J′	J″
589.524944	0.6995	40	41
592.318848*	1.3658	39	40
595.115800	0.0625	38	39
597.914294*	2.1343	37	38
603.508223	0.7444	35	36
609.104794	0.9304	33	34
611.906479	0.6750	32	33
617.508151	0.5601	30	31
620.309340	0.1568	29	30
625.914517	1.0421	27	28
628.721146*	5.0887	26	27
631.520111*	1.2590	25	26
634.319652*	2.1477	24	25
639.927287	0.6287	22	23
642.733603*	2.6391	21	22
645.534007	0.0820	20	21
648.337053	0.3146	19	20
651.138111*	1.2319	18	19
653.941287	0.3906	17	18
656.742084*	1.5969	16	17
659.545156	0.1352	15	16
662.346214	0.2325	14	15
667.941032*	6.1114	12	13
670.745752	0.8082	11	12
673.544168	1.1042	10	11
676.344258	1.0415	9	10
681.936513	0.0358	7	8
684.730587*	1.2231	6	7
690.317244*	1.9601	4	5
695.905785*	3.7850	2	3
709.837444*	1.9556	2	1
712.615929*	1.7093	3	2
715.398939	0.8185	4	3
720.954103	0.2846	6	5
723.728612	0.2908	7	6
726.501997	0.0594	8	7
729.272556	0.6570	9	8
732.041887	0.4194	10	9
734.810877*	1.6066	11	10
737.574557	0.5187	12	11
740.336616	0.0724	13	12
743.096922	0.2025	14	13
745.854403	0.0960	15	14
748.609739	0.0763	16	15
751.362616	0.0149	17	16
754.113035	0.2459	18	17

Table 15 continued

02(2F)1-01(1F)1 DCNECS

observed	10^3(o-c)	J′	J″
756.859609	0.7027	19	18
762.346845	0.2460	21	20
767.822467	0.0704	23	22
770.552563*	3.0136	24	23
773.285953	0.2692	25	24
776.012622	0.0277	26	25
778.737015	0.6091	27	26
781.456595	0.2883	28	27
784.173664	0.3494	29	28
786.888484	0.7569	30	29
789.597287	0.6679	31	30
792.304861	0.2332	32	31
795.008696	1.0199	33	32
797.706828	0.2020	34	33
800.402266	0.3540	35	34
803.095035	0.6592	36	35
805.783149	0.9218	37	36
808.465404	0.6998	38	37
811.145801	0.1340	39	38
813.823452*	1.8017	40	39
816.494747*	1.5687	41	40
819.160235	0.2129	42	41
821.822559	0.8289	43	42
824.480305*	1.6217	44	43

THE RMS DEV = 0.000548 FOR 50 LINES

Table 16

02(2F)1-01(1F)1 HCNETS

observed	10^3(o-c)	J′	J″
597.914470*	2.3103	37	38
600.708519*	0.9061	36	37
603.507493	0.0144	35	36
606.306397	0.1332	34	35
609.105845	0.1205	33	34
611.905967	0.1630	32	33
614.706859	0.4137	31	32
617.507481	0.1098	30	31
620.309647	0.4638	29	30
623.111266	0.1020	28	29
625.913385	0.0898	27	28
631.520409*	1.5570	25	26
634.319860*	1.9397	24	25
637.124209	0.6319	23	24
805.781285	0.9421	37	36
808.466816	0.7121	38	37
811.147083	1.1479	39	38
813.821657	0.0067	40	39
816.490755*	2.4232	41	40
819.160809	0.3610	42	41
821.823784	0.3960	43	42
824.482344	0.4172	44	43

THE RMS DEV = 0.000488 FOR 16 LINES

Table 17

02(2E)1-01(1E)1 HCNETS

observed	10^3(o-c)	J′	J″
632.975033	0.2185	27	28
635.198898	0.9462	26	27
637.452323	0.3875	25	26
639.737020	0.3583	24	25
642.050633*	0.8583	23	24
644.396539	0.8470	22	23
646.765620*	2.8252	21	22
649.168246	0.6113	20	21
651.596349	0.3778	19	20
654.048311	0.4686	18	19
656.525923	0.3182	17	18
659.028883*	1.5883	16	17
661.551207	0.3332	15	16
744.457747	0.5305	14	13
747.443455*	1.0924	15	14
750.450774	0.6184	16	15
756.527781	0.4225	18	17
759.599417	1.0614	19	18
762.692895	0.3048	20	19
765.811440	0.4965	21	20
772.122951	0.3200	23	22
775.319032	0.3250	24	23
778.541408	0.2453	25	24
781.792475*	1.3228	26	25
785.070815*	1.7232	27	26
791.710073	0.0869	29	28
795.072430	0.8488	30	29
798.462018*	3.1888	31	30
801.884305*	1.4126	32	31
805.335338*	0.6538	33	32

THE RMS DEV = 0.000543 FOR 21 LINES

Table 18

02(2E)1-01(1E)1 DCNECS

observed	10^3(o-c)	J′	J″
618.320026*	2.6297	34	35
620.309340*	4.6463	33	34
622.346573*	3.5299	32	33
624.411244*	6.6083	31	32
626.500424*	1.6568	30	31
628.629624*	4.2584	29	30
630.786732*	2.4563	28	29
632.974915	0.3365	27	28
639.737207	0.5453	24	25
642.048247*	3.2443	23	24
644.396325	0.6330	22	23
646.766087*	2.3582	21	22
649.166373*	2.4843	20	21
654.049183	0.4033	18	19
656.525585	0.6562	17	18
661.552151*	1.2772	15	16
664.095671	0.2504	14	15
666.661163	0.2399	13	14
669.245906	0.4107	12	13
671.850110	0.4053	11	12
674.471263	0.6030	10	11
677.110202*	1.8679	9	10
679.761383	0.5582	8	9
682.433959*	3.1958	7	8
687.809062*	2.4656	5	6
690.518703*	3.6855	4	5
693.245397	0.9056	3	4
718.314746	0.5197	5	4
721.161342	0.1886	6	5
724.021226	0.0225	7	6
726.894634	0.3289	8	7
729.782165	0.6540	9	8
732.685312	0.0972	10	9
735.603343	0.0500	11	10
738.536858	0.6351	12	11
741.488395	0.0951	13	12
744.458320	1.1035	14	13
747.443494*	1.0534	15	14
756.526844	0.5144	18	17
762.693603	1.0128	20	19
765.812542*	1.5985	21	20
772.123110	0.1610	23	22
775.318713	0.0060	24	23
778.541808	0.6453	25	24
781.790955	0.1971	26	25
785.070705*	1.6132	27	26

Table 18 continued

02(2E)1-01(1E)1 DCNECS

observed	10^3(o-c)	J′	J″
791.709303	0.6830	29	28
795.073225	0.0538	30	29
798.462151*	3.0558	31	30
805.335322	0.6378	33	32

THE RMS DEV = 0.000523 FOR 31 LINES

Table 19

02(0)1-01(1E)1 DCNECS

observed	10^3(o-c)	J′	J″
575.860410	0.6503	42	43
581.201182	0.4549	40	41
586.528902	0.1738	38	39
589.186818	0.7443	37	38
591.838351	0.6087	36	37
594.485152*	2.0146	35	36
597.128158*	2.3444	34	35
599.767608*	1.2035	33	34
602.401499	0.4833	32	33
605.030158	0.2008	31	32
607.652031	0.7092	30	31
610.271078	0.6705	29	30
618.090685*	4.0204	26	27
620.695254	0.9008	25	26
623.290486	0.0848	24	25
625.884175	0.1969	23	24
628.475588	0.3044	22	23
631.065327	0.0487	21	22
633.654621	0.2031	20	21
636.244935	0.0922	19	20
638.836374	0.0728	18	19
641.430088	0.1087	17	18
644.027778	0.2353	16	17
646.630909*	1.5565	15	16
649.236028	0.5984	14	15
651.850486	0.1474	13	14
654.472031	0.6059	12	13
657.100926	0.1515	11	12
662.387567	0.0357	9	10
665.045889	0.5231	8	9
667.716896	0.4021	7	8
670.396979*	1.3550	6	7
673.091580	0.8343	5	6
675.799494	0.3549	4	5
717.953209	0.7600	10	9
720.853950	0.5128	11	10
723.763165	0.5635	12	11
726.677455	0.0292	13	12
729.597735	0.1864	14	13
732.523037	0.0107	15	14
735.451765	0.1245	16	15
738.382926	0.2878	17	16
741.314872	0.0079	18	17
744.247105	0.1221	19	18
747.178946	0.3891	20	19
750.108747*	0.9705	21	20

Table 19 continued

02(0)1-01(1E)1 DCNECS

observed	10^3(o-c)	J′	J″
753.034598	0.7587	22	21
755.955532	0.2257	23	22
761.784059	0.4786	25	24
764.687180	0.7258	26	25
767.582951*	1.9913	27	26
770.473779	0.3568	28	27
773.354824	0.2038	29	28
776.227368	0.1160	30	29
779.090208	0.3203	31	30
781.945514	0.8570	32	31
784.789888	0.3787	33	32
787.623720*	1.2992	34	33
790.451510	0.3357	35	34
793.267686	0.3204	36	35
796.075676	0.0919	37	36
798.874327	0.3236	38	37
801.662961	0.4210	39	38
804.443643	0.2095	40	39
807.215039	0.5182	41	40
809.979923*	1.2795	42	41
812.734788*	1.5283	43	42
815.479661	0.1081	44	43
823.671491*	1.5986	47	46

THE RMS DEV = 0.000434 FOR 57 LINES

Table 20

02(0E)1-01(1E)1 HCNETS

observed	10^3(o-c)	J′	J″
578.535175*	2.7628	41	42
581.201503	0.1339	40	41
583.867984	0.8200	39	40
586.528616	0.1121	38	39
589.186320	0.2463	37	38
591.838957	0.0027	36	37
594.486691	0.4756	35	36
597.128203*	2.2994	34	35
599.767951	0.8605	33	34
602.407516*	5.5336	32	33
605.029989	0.0318	31	32
607.652364	0.3762	30	31
610.270223	0.1844	29	30
612.883239	0.1248	28	29
615.490860	0.2421	27	28
618.090789*	3.9164	26	27
641.430460	0.2632	17	18
644.027522	0.0206	16	17
646.631597*	2.2445	15	16
675.798648	0.4910	4	5
678.519290	0.4548	3	4
681.251712	0.0392	2	3
683.997331	0.7269	1	2
695.115437*	2.4399	2	1
700.755550*	1.2894	4	3
703.589863*	5.2498	5	4
706.450147*	4.8106	6	5
709.305612*	1.3672	7	6
712.180668*	1.2342	8	7
715.061414	0.6022	9	8
796.072923*	2.6610	37	36
798.874803	0.7996	38	37
801.663865	0.4829	39	38
804.444300	0.4474	40	39
807.216350	0.7927	41	40
809.978315	0.3284	42	41
812.733637	0.3773	43	42
815.480804*	1.2511	44	43
820.948774	1.0380	46	45
823.671838*	1.9456	47	46
826.388385*	4.1283	48	47
829.093521*	2.5799	49	48
831.787809*	2.2395	50	49

THE RMS DEV = 0.000497 FOR 26 LINES

Table 21

02(0)1-01(1F)1 DCNECS

observed	10^3(o-c)	J′	J″
689.504794	0.5603	9	9
689.474557	0.4259	11	11
689.452088	0.1311	12	12
689.424205	0.3174	13	13
689.294835	0.0344	16	16
688.979230	0.6666	20	20
688.868875	0.0799	21	21
688.442157	0.4046	24	24
688.072878	0.1866	26	26
687.860669	0.1313	27	27
687.629889	0.3248	28	28
686.509418	0.1392	32	32
685.460696	0.6200	35	35
685.066961*	5.7654	36	36

THE RMS DEV = 0.000371 FOR 13 LINES

Table 22

02(2E)1-01(1F)1 DCNECS

observed	10^3(o-c)	J′	J″
704.267945	0.1214	15	15
704.329466	0.0321	17	17
704.373958	0.2650	18	18
704.428521	0.3546	19	19
704.494069	0.1390	20	20
704.663459	0.2659	22	22
705.024839	0.4530	25	25
705.175946	0.3650	26	26
705.345153	0.2032	27	27
705.954890	0.0086	30	30
706.194406	0.7360	31	31
706.450033	0.3064	32	32
706.724652	0.2425	33	33
707.653708	1.1218	36	36
707.998321*	1.3203	37	37

THE RMS DEV = 0.000434 FOR 13 LINES

Table 23

02(2E)1-01(1F)1 HCNETS

observed	10^3(o-c)	J′	J″
704.256347*	1.6403	3	3
704.248426*	1.4313	5	5
704.234790	0.0827	7	7
704.224852	0.1844	9	9
704.224852*	1.9965	12	12
704.234790	0.1619	13	13
704.248426	0.1366	14	14
704.268412	0.5884	15	15
704.289532*	5.0205	16	16
704.329501	0.0028	17	17
704.373809	0.1160	18	18
704.428228	0.0616	19	19
704.494319	0.3890	20	20
704.573373*	1.4109	21	21
704.663590	0.3969	22	22
704.768083	0.4085	23	23
704.891381*	2.7285	24	24
705.024776	0.3900	25	25
705.176296	0.0150	26	26
705.344893	0.0567	27	27
705.529091*	1.6346	28	28
705.733202	0.7627	29	29
705.954926	0.0273	30	30
706.194110	0.4400	31	31
706.450147	0.1924	32	32
706.724022	0.8725	33	33
707.016551	0.7067	34	34
707.654032	0.7978	36	36
707.997611*	2.0303	37	37
708.359173*	2.3095	38	38
708.736955*	3.1273	39	39
709.130157*	4.9956	40	40
709.542594*	3.8001	41	41
710.413342*	2.8190	43	43
711.336855*	0.0564	45	45
711.824474*	9.9163	46	46

THE RMS DEV = 0.000425 FOR 21 LINES

Table 24

02(2F)1-01(1E)1 DCNECS

observed	10^3(o-c)	J′	J″
704.446203	0.2039	5	5
704.602671	0.4132	7	7
704.926019	0.4149	10	10
706.772701	0.2054	20	20
707.283671	0.9757	22	22
707.554313	0.5824	23	23
708.133420	0.2730	25	25
708.757909	0.1375	27	27
709.086489	0.6961	28	28

THE RMS DEV = 0.000505 FOR 9 LINES

Table 25

02(2F)1-01(1E)1 HCNETS

observed	10^3(o-c)	J′	J″
704.306524*	4.0748	2	2
704.339394	0.9467	3	3
704.386518	0.0822	4	4
704.445912	0.4949	5	5
704.516880*	1.4714	6	6
704.602203	0.0547	7	7
704.700809*	2.6966	8	8
704.805787	0.1131	9	9
704.925929	0.3249	10	10
705.057645	0.4401	11	11
705.352330*	3.6817	13	13
705.529091*	5.9205	14	14
705.696357*	5.7741	15	15
706.096596*	1.2528	17	17
706.311644*	2.1118	18	18
706.526791*	8.6074	19	19
706.772515	0.3914	20	20
707.022778	0.7595	21	21
707.283421	0.7257	22	22
707.554593	0.3024	23	23
707.839887*	1.3106	24	24
708.133399	0.2940	25	25
708.439081*	1.1182	26	26
708.758019	0.0275	27	27
709.085850*	1.3351	28	28
709.426924	0.6393	29	29
709.779874	0.7461	30	30
710.138434*	3.3894	31	31
710.514402*	1.1915	32	32
711.700487*	2.2715	35	35
712.114985*	5.2413	36	36
712.540395*	8.0654	37	37
713.433033*	3.9276	39	39
713.889475*	7.6142	40	40

THE RMS DEV = 0.000508 FOR 15 LINES

Table 26

01(1E)1-00(0)1 DCNECS

observed	10^3(o-c)	J′	J″
579.347595*	6.0974	43	44
582.099243	0.9776	42	43
584.855887*	4.4716	41	42
587.615081*	6.7865	40	41
590.386556*	1.8533	39	40
593.150471*	1.6518	38	39
595.914897	0.7255	37	38
598.678028*	2.6857	36	37
601.448548	0.1483	35	36
604.216727	0.4552	34	35
606.986606	0.4084	33	34
609.757885	0.0366	32	33
612.529268	0.3678	31	32
615.301711*	0.6174	30	31
618.075749	0.1278	29	30
620.850389	0.1573	28	29
623.625709	0.3662	27	28
626.400532	0.6278	26	27
629.177709	0.0770	25	26
631.954153	0.5546	24	25
634.732115	0.2202	23	24
637.510575	0.1124	22	23
640.289242	0.2053	21	22
643.068172	0.1674	20	21
645.847284	0.0286	19	20
648.626999	0.0921	18	19
651.408204*	1.4712	17	18
654.186793	0.0577	16	17
656.967083	0.2239	15	16
659.746378	0.6704	14	15
662.527427	0.1800	13	14
665.307376	0.0220	12	13
668.087744	0.2995	11	12
670.866778	0.5506	10	11
673.646728	0.2646	9	10
676.426207	0.1709	8	9
679.205450	0.0244	7	8
681.984066	0.0102	6	7
684.762263	0.0073	5	6
687.539989	0.0414	4	5
690.317244	0.1967	3	4
693.086103*	7.4054	2	3
695.869637	0.3673	1	2
709.735956	0.5606	3	2
715.274433	0.3146	5	4
718.041775	0.8710	6	5

Table 26 continued

01(1E)1-00(0)1 DCNECS

observed	10^3(o-c)	J′	J″
720.809562	0.2893	7	6
723.574393	0.1686	8	7
726.338859	0.4117	9	8
729.101048	0.1850	10	9
731.861956	0.2140	11	10
734.620928	0.0891	12	11
737.378906	0.2851	13	12
742.888584	0.0420	15	14
745.640782	0.0597	16	15
748.391017	0.0600	17	16
751.139082	0.0946	18	17
753.885002	0.3095	19	18
759.371061	0.0156	21	20
762.110625	0.1221	22	21
764.847311	0.2813	23	22
767.582951	0.7087	24	23
770.314302	0.0785	25	24
773.043952	0.0172	26	25
775.770909	0.0766	27	26
778.495145	0.1449	28	27
781.216556	0.1914	29	28
783.935220	0.3679	30	29
786.650145	0.2435	31	30
789.363030	0.1303	32	31
792.072618	0.3075	33	32
794.778126	0.4201	34	33
797.482090	0.5588	35	34
800.181713	0.5231	36	35
802.878040	0.5937	37	36
805.570496	0.2718	38	37
808.259865	0.4182	39	38
810.945389	0.3518	40	39
813.627879	0.9606	41	40
816.306053	1.0402	42	41
818.979206	0.0364	43	42
821.650082	0.5523	44	43
824.315623	0.1727	45	44
826.978783	0.8206	46	45
829.635980	0.0295	47	46

THE RMS DEV = 0.000388 FOR 75 LINES

Table 27

01(1E)1-00(0E)1 HCNETS

observed	10^3(o-c)	J′	J″
568.321561	0.0593	47	48
571.074314	0.0620	46	47
573.827934	0.5362	45	46
576.582753*	1.4800	44	45
579.341622	0.1244	43	44
582.100114	0.1066	42	43
584.861212	0.8533	41	42
587.621603	0.2645	40	41
590.386017*	1.3143	39	40
593.149243	0.4238	38	39
595.914450	0.2785	37	38
598.680149	0.5647	36	37
601.448395	0.0046	35	36
634.732220	0.1152	23	24
643.068010	0.0054	20	21
645.847575	0.2623	19	20
651.408235*	1.5022	17	18
654.186862	0.1267	16	17
656.966809	0.0501	15	16
662.527319	0.0720	13	14
665.307410	0.0119	12	13
668.088082	0.6375	11	12
670.866798	0.5306	10	11
723.574662	0.1003	8	7
729.100726	0.1369	10	9
731.861847	0.1050	11	10
734.620717	0.3001	12	11
737.378477	0.1438	13	12
745.640735	0.0127	16	15
748.391204	0.2470	17	16
751.139012	0.1646	18	17
753.885123	0.1885	19	18
759.371149	0.1036	21	20
762.110721	0.2181	22	21
764.847389	0.2033	23	22
767.583045	0.8027	24	23
770.314055	0.3255	25	24
773.043906	0.0288	26	25
810.944873	0.1641	40	39
813.626999	0.0806	41	40
816.305471	0.4582	42	41
818.979421	0.1785	43	42
821.650334	0.8043	44	43
824.316077	0.2812	45	44
826.977252	0.7103	46	45
829.635200	0.7504	47	46

THE RMS DEV = 0.000364 FOR 42 LINES

Table 28

01(1F)1-00(0)1 DCNECS

observed	10^3(o-c)	J′	J″
701.607401	0.2218	5	5
701.984004	0.1564	9	9
702.109477	0.1993	10	10
702.247401	0.2595	11	11
702.923994	0.2216	15	15
703.123856	0.1570	16	16
703.336012	0.0922	17	17
703.560514	0.1158	18	18
703.797074	0.0220	19	19
704.046033	0.0602	20	20
704.865362	0.1200	23	23
705.162658	0.2681	24	24
705.472222	0.7377	25	25
705.792483	0.0099	26	26
706.125274	0.0278	27	27
706.469938	0.0235	28	28
706.826270	0.0171	29	29
708.367417	0.2209	33	33
709.206023	1.0174	35	35
709.643519	0.1605	36	36
710.551650*	1.1777	38	38
713.008827	0.5626	43	43
713.533555	0.1180	44	44
714.067464	0.5805	45	45
714.608984*	4.1422	46	46
715.732462*	1.8981	48	48
716.309346	0.9871	49	49
718.099137	0.5616	52	52

THE RMS DEV = 0.000399 FOR 25 LINES

Table 29

01(1F)1-00(0E)1 HCNETS

observed	10^3(o-c)	J′	J″
701.872780*	1.6455	8	8
702.109588	0.0883	10	10
702.245568*	2.0925	11	11
702.561586	0.6497	13	13
702.736036	0.1380	14	14
702.923869	0.0966	15	15
703.123667	0.0319	16	16
703.335952	0.0322	17	17
703.560329	0.0692	18	18
703.797034	0.0620	19	19
704.045960	0.0128	20	20
704.306481	0.5050	21	21
704.579656	0.4352	22	22
704.865250	0.0080	23	23
705.162624	0.2341	24	24
705.793100	0.6269	26	26
706.469955	0.0405	28	28
706.826101	0.1518	29	29
707.193912	0.3450	30	30
707.574284	0.4186	31	31
707.967009*	1.9949	32	32
708.367189	0.4489	33	33
708.780644	1.0256	34	34
709.206052	0.9884	35	35
709.642313*	1.3665	36	36
710.091304	0.2108	37	37
710.551267	0.7947	38	38
711.010077*	0.3992	39	39
711.490487*	0.9624	40	40

THE RMS DEV = 0.000447 FOR 22 LINES

Table 30

07(1E)0-06(0)0 DCNECS

observed	10^3(o-c)	J′	J″
661.943820*	6.7483	4	5
659.001883*	5.3823	5	6
656.063555	0.1798	6	7
653.108252	0.7663	7	8
647.177269	0.1775	9	10
641.237785	0.8144	11	12
632.362929	0.0869	14	15
629.424496	0.7827	15	16
626.500424	0.4212	16	17
620.695254	0.7794	18	19
617.817505	1.0056	19	20
690.160200*	6.8559	5	4
692.858593	0.3737	6	5
706.151064*	1.4828	11	10
711.404068	0.3068	13	12
716.657255	0.9167	15	14
721.925508*	2.3034	17	16
727.234094*	1.2855	19	18
729.900393	0.0088	20	19
732.579875*	1.4057	21	20
735.268695*	1.8806	22	21
743.385586*	1.6577	25	24
746.109142	0.3798	26	25
748.837327	0.4881	27	26
751.570771	0.2977	28	27
754.309053	0.7911	29	28
757.050866*	2.4363	30	29
759.796733*	6.0560	31	30

THE RMS DEV = 0.000589 FOR 16 LINES

Table 31

07(1F)0-06(0)0 DCNECS

observed	10^3(o-c)	J′	J″
676.536247	0.2488	3	3
676.687956	0.6561	4	4
676.877774	0.4480	5	5
677.110202	0.6306	6	6
677.387410	0.4492	7	7
677.708638	0.0098	8	8
678.078205	0.1254	9	9
678.977495*	8.4214	11	11
679.495318	0.5289	12	12
680.714293	0.2913	14	14
681.409719	0.4608	15	15
682.162506	0.1460	16	16
683.830695*	1.3346	18	18
684.743639	0.2146	19	19
685.700866	0.1352	20	20
686.698975	0.0258	21	21
687.737184*	4.5466	22	22

THE RMS DEV = 0.000375 FOR 13 LINES

Table 32
07(1E)0-06(0)0 HCNETS

observed	10^3(o-c)	J′	J″
629.425643	0.3642	15	16
632.362820	0.1959	14	15
638.271075	0.1480	12	13
641.237248	0.2774	11	12
644.206696	0.0445	10	11
647.177034	0.4125	9	10
650.146174	0.2551	8	9
653.108827	0.1913	7	8
656.062418*	1.3168	6	7
659.001612*	5.6533	5	6
661.936563	0.5086	4	5
667.744277*	2.6176	2	3
681.916909*	1.4836	2	1
690.153948	0.6039	5	4
692.858657	0.4377	6	5
698.216329*	1.4751	8	7
700.870377	0.2805	9	8
703.511583*	3.0775	10	9
706.150608	1.0268	11	10
708.771394*	6.9055	12	11
711.404113	0.3518	13	12
716.663905*	7.5667	15	14

THE RMS DEV = 0.000432 FOR 13 LINES

Table 33
07(1F)0-06(0E)0 HCNETS

observed	10^3(o-c)	J′	J″
676.351390	0.9609	1	1
676.425864*	1.3345	2	2
676.533105*	3.3908	3	3
676.687605	0.3051	4	4
676.878678	0.4559	5	5
677.110001*	0.8316	6	6

THE RMS DEV = 0.000639 FOR 3 LINES

Table 34
07(1F)0-06(2F)0 HCNETS

observed	10^3(o-c)	J′	J″
644.396500*	4.9845	5	6
647.036452*	5.3670	4	5
649.719976	0.3270	3	4
652.438185	0.9797	2	3
669.546553	0.7287	3	2
672.530443*	1.5425	4	3
678.604536*	6.8944	6	5

THE RMS DEV = 0.000730 FOR 3 LINES

Table 35
07(1E)0-06(2F)0 HCNETS

observed	10^3(o-c)	J′	J″
660.756993	0.6876	2	2
660.615114*	2.6739	4	4
660.507914	0.0508	5	5
660.381504	0.0222	6	6
660.234142*	1.2933	7	7
660.062186	0.7127	8	8
659.867080	0.2446	9	9
659.648126	0.2736	10	10
659.405224	0.4081	11	11
659.138499	0.4821	12	12
658.844861	0.2114	13	13
658.182819*	1.2729	15	15

THE RMS DEV = 0.000417 FOR 9 LINES

Table 36
07(1E)0-06(2E)0 HCNETS

observed	10^3(o-c)	J′	J″
631.322664*	0.7941	9	10
634.424193	0.5513	8	9
640.498120	0.7561	6	7
643.480880*	1.4366	5	6
649.358210	0.6367	3	4
652.257038	0.6445	2	3
655.140005*	6.8387	1	2
655.131125*	2.0412	1	2
669.194823*	2.1541	3	2
671.944718*	5.2972	4	3
674.669032*	7.7594	5	4
682.657968*	7.9729	8	7
685.250033*	7.7329	9	8
692.744354*	2.7342	12	11
692.754593*	7.5047	12	11
695.146237*	4.2609	13	12

THE RMS DEV = 0.000651 FOR 4 LINES

Table 37
07(1F)0-06(2E)0 HCNETS

observed	10^3(o-c)	J′	J″
660.937403*	3.1328	2	2
661.046670	0.6137	3	3
661.586136	0.2520	6	6

THE RMS DEV = 0.000469 FOR 2 LINES

Table 38

07(3E)0-06(2F)0 HCNETS

observed	10^3(o-c)	J′	J″
692.123687*	2.8351	6	6
692.173866	0.0759	7	7
692.301137*	2.5494	9	9
692.470960	0.5542	11	11
692.703710	0.8701	13	13
692.843540	0.2358	14	14
693.003402	0.0280	15	15
693.182987	0.0169	16	16
693.382390*	1.4683	17	17
693.605344*	1.9304	18	18

THE RMS DEV = 0.000433 FOR 5 LINES

Table 39

07(3F)0-06(2E)0 HCNETS

observed	10^3(o-c)	J′	J″
692.173866	0.8538	7	7
692.301137*	1.5461	9	9
692.729757*	8.5592	13	13
692.897014*	1.5241	14	14
693.081837*	3.5315	15	15
693.299528*	2.9710	16	16
693.850238*	5.8290	18	18
694.178627	0.0867	19	19
694.557316*	4.3095	20	20
694.996567*	2.5977	21	21
695.496811	0.0407	22	22
696.057310*	3.1425	23	23

THE RMS DEV = 0.000496 FOR 2 LINES

Table 40

07(3F)0-06(2F)0 HCNETS

observed	10^3(o-c)	J′	J″
630.620733*	3.6166	22	23
635.288329	0.2049	20	21
640.178354*	2.7892	18	19
642.699175	0.6272	17	18
645.261793*	1.9980	16	17
647.855937	0.5740	15	16
650.485534	0.1995	14	15
653.143155	0.4835	13	14
655.829683*	2.8991	12	13
658.534555*	2.4646	11	12
661.257316	0.4969	10	11
663.998227	0.3204	9	10
669.526671*	1.9239	7	8
672.305555	0.1842	6	7
680.704087	0.1095	3	4
700.531655	0.4797	3	2
703.387936*	1.2241	4	3
709.120475*	2.2166	6	5
714.881357*	1.4398	8	7
717.780790	0.4272	9	8
723.614168	0.1359	11	10
726.552662*	1.4723	12	11
729.509988*	2.9389	13	12
732.494499*	1.2831	14	13
735.498222	0.0488	15	14
738.527319*	4.0374	16	15
741.596956	0.2343	17	16
744.696826*	1.7982	18	17
747.841386	0.4198	19	18

THE RMS DEV = 0.000374 FOR 15 LINES

Table 41

07(3E)0-06(2E)0 HCNETS

observed	10^3(o-c)	J′	J″
628.157729*	8.8051	21	22
631.253519*	2.3310	20	21
637.381318	0.8435	18	19
640.408860	0.0667	17	18
643.408856	0.4473	16	17
646.383990	0.5005	15	16
649.332209	0.0186	14	15
652.257038	0.2347	13	14
655.159763	0.7551	12	13
658.046433*	5.3655	11	12
660.905485	0.0572	10	11
663.754628	0.5823	9	10
666.595426*	2.4805	8	9
672.238586*	5.3305	6	7
672.252283*	8.3664	6	7
677.879416	0.0045	4	5
709.101996*	1.2123	6	5
720.522094	0.3022	10	9
723.356829*	4.6458	11	10
726.186961*	1.3176	12	11
729.000048	0.3044	13	12
731.793111	0.2461	14	13
734.565328	0.5084	15	14
737.313855	0.7710	16	15
740.036007	0.4716	17	16
742.734987*	4.4598	18	17
745.400951*	4.0222	19	18

THE RMS DEV = 0.000465 FOR 16 LINES

Table 42

07(5E)0-06(4E)0 DCNECS

observed	10^3(o-c)	J′	J″
770.846641	0.7515	22	21
773.735716	0.3737	23	22
776.625811	0.6396	24	23
779.515409	0.9806	25	24
782.404563	0.6515	26	25
791.057088*	1.0384	29	28
793.928376*	2.2687	30	29
799.658215*	0.8011	32	31

THE RMS DEV = 0.000707 FOR 5 LINES

Table 43

07(5F)0-06(4F)0 DCNECS

observed	10^3(o-c)	J′	J″
779.558542	0.6817	25	24
785.369073*	4.6775	27	26
788.286005	0.7532	28	27
791.202387*	1.9847	29	28
797.057516	0.8456	31	30
799.992993	0.4565	32	31

THE RMS DEV = 0.000699 FOR 4 LINES

Table 44

07(5)0-06(4)0 DCNECS

observed	10^3(o-c)	J′	J″
674.141899*	1.9600	11	12
671.358052*	1.5444	12	13
665.801396*	1.2159	14	15
663.026756	0.4095	15	16
660.257557	0.0657	16	17
708.064105	0.0879	11	11
708.152018	0.2187	13	13
708.200250	0.0834	14	14
708.252537	0.6242	15	15
708.306786	0.3395	16	16
708.423523	0.4519	18	18

THE RMS DEV = 0.000343 FOR 8 LINES

Table 45

07(5)0-06(4)0 DCNECS

observed	10^3(o-c)	J′	J″
733.435327	0.0115	9	8
736.297199	0.1736	10	9
739.162367	0.1454	11	10
742.030203	0.4446	12	11
744.901596	0.0892	13	12
747.774035*	1.4913	14	13
750.651994	0.0721	15	14
753.530998	0.1956	16	15
756.412619	0.1722	17	16
759.296436	0.2984	18	17

THE RMS DEV = 0.000216 FOR 9 LINES

Table 46

07(5)0-06(4)0 HCNETS

observed	10^3(o-c)	J′	J″
707.882232	0.4487	5	5
707.957546	0.0554	8	8
707.987491*	2.1898	9	9
708.064664	0.4710	11	11
708.104511*	1.8825	12	12
708.153005*	1.2057	13	13
708.197142*	3.1914	14	14
708.252055	0.1422	15	15
708.306788	0.3415	16	16
708.359131*	4.7050	17	17
708.423800	0.1749	18	18

THE RMS DEV = 0.000315 FOR 5 LINES

Table 47

07(5F)0-06(4E)0 HCNETS

observed	10^3(o-c)	J′	J″
708.555652	0.8581	20	20
708.700359	1.3323	22	22
708.771394*	3.5115	23	23
708.853815	0.2022	24	24
708.937876	1.3415	25	25
709.022044	0.6415	26	26
709.206052*	1.0658	28	28
709.305570*	0.6205	29	29
709.412289*	1.7978	30	30
709.518931*	1.6843	31	31
709.635820*	1.4247	32	32
709.761939	0.7912	33	33
710.183863*	1.5754	36	36
710.347684	0.0771	37	37
710.524116*	1.7387	38	38

THE RMS DEV = 0.000878 FOR 6 LINES

Table 48

07(5E)0-06(4F)0 HCNETS

observed	10^3(o-c)	J′	J″
708.484056	0.3027	19	19
708.549094*	1.5490	20	20
708.613290	0.1875	21	21
708.680082	0.0016	22	22
708.748959	0.8871	23	23
708.816016	0.5824	24	24
708.888013*	2.9123	25	25
708.953305	0.3770	26	26
709.022044*	2.7150	27	27
709.085807*	2.3629	28	28
709.249851*	1.9018	31	31
709.294591	1.2530	32	32
709.334404*	2.7114	33	33
709.376267*	3.3097	35	35
709.376267*	0.6577	36	36
709.241006*	2.2866	40	40

THE RMS DEV = 0.000651 FOR 6 LINES

Table 49

07(5)0-06(4)0 HCNETS

observed	10^3(o-c)	J′	J″
649.218125*	7.6953	20	21
651.976482*	8.8288	19	20
657.485003*	6.0735	17	18
660.258093	0.6017	16	17
663.027478	0.3124	15	16
665.800326	0.1459	14	15
668.575578*	1.0283	13	14
671.359888*	3.3804	12	13
674.141876*	1.9370	11	12
676.926413	0.5350	10	11
679.717337	0.2388	9	10
682.512147	0.2910	8	9
685.306489*	3.3267	7	8
690.917588	0.7360	5	6
730.575326*	1.0968	8	7
733.435190	0.1254	9	8
736.297240	0.1326	10	9
739.162394	0.1184	11	10
742.030445	0.2026	12	11
744.901839	0.1537	13	12
747.774048*	1.4783	14	13
750.651953	0.1131	15	14
753.531256	0.0623	16	15
756.412702	0.0892	17	16
759.296627	0.1074	18	17
762.183860	0.9686	19	18

THE RMS DEV = 0.000386 FOR 16 LINES

Table 50

07(5E)0-06(4E)0 HCNETS

observed	10^3(o-c)	J′	J″
621.922324*	0.7433	30	31
632.770500*	3.0828	26	27
635.504167*	1.5953	25	26
638.235824*	0.9193	24	25
640.975816	0.1776	23	24
643.720542*	1.6457	22	23
646.466429	0.1893	21	22
770.861527	1.0192	22	21
773.759161*	1.8164	23	22
776.657004	0.1520	24	23
779.559058	0.1657	25	24
782.464568	0.1653	26	25
788.287265	0.5067	28	27
791.204559	0.1872	29	28
797.057779	1.1086	31	30
799.993130	0.3195	32	31
805.894776	0.4013	34	33
808.862700*	0.9768	35	34
811.845997*	0.8092	36	35
814.846004*	1.1406	37	36
820.911930	0.2717	39	38

THE RMS DEV = 0.000504 FOR 11 LINES

Table 51

07(5F)0-06(4F)0 HCNETS

observed	10^3(o-c)	J′	J″
595.978233*	7.4285	39	40
598.917770*	8.3378	38	39
601.822926*	3.6266	37	38
607.565051*	1.9773	35	36
610.404949*	2.4906	34	35
616.031170*	1.3070	32	33
621.605690	0.1163	30	31
624.379979	0.3458	29	30
627.146564	0.4810	28	29
629.909805	0.3586	27	28
632.669034	0.7700	26	27
635.423611*	1.1180	25	26
638.179672	0.2221	24	25
640.934702	0.0499	23	24
646.447952*	2.1234	21	22
770.846538	0.6485	22	21
773.736880	0.7902	23	22
776.626626	0.1753	24	23
779.516536	0.1463	25	24
782.403371*	1.8435	26	25
785.286768*	5.3375	27	26
793.930106	0.5387	30	29
796.799155*	0.8040	31	30
799.657585*	0.1711	32	31
802.507579*	1.7349	33	32
805.335289*	6.1225	34	33
808.164549*	2.8970	35	34

THE RMS DEV = 0.000459 FOR 11 LINES

Table 52

07(7)0-06(6)0 DCNECS

observed	10^3(o-c)	J′	J″
723.820841	0.3378	9	9
723.837869	0.0966	10	10
723.856937	0.2346	11	11
723.901272	0.4610	13	13
723.926043	0.8003	14	14
723.951258	0.1561	15	15
723.979454	0.1293	16	16
724.008384	0.5887	17	17
724.073984	0.5072	19	19
724.144842	0.0730	21	21
724.265111	0.0659	24	24
724.308714	0.1738	25	25
724.354069	0.3116	26	26
724.400811	0.1166	27	27
724.449227	0.1214	28	28
724.551604	0.1920	30	30
724.605434	0.1488	31	31
724.660677	0.3963	32	32
724.718195	0.0681	33	33
724.776865	0.2823	34	34
724.837653	0.0677	35	35
724.963858	0.0512	37	37
725.027366*	2.1435	38	38
725.095060*	1.7085	39	39
725.168351*	2.6753	40	40
725.234632*	1.5866	41	41
725.311270*	2.8871	42	42
725.384927*	2.7753	43	43
743.523771	0.2417	7	6
746.355485	0.1168	8	7
749.189552	0.4758	9	8
752.023306	0.6032	10	9
754.860120	0.0616	11	10
757.697248	0.2327	12	11
760.536155	0.0208	13	12
763.375454	0.5223	14	13
766.216897	0.0684	15	14
771.901982	0.2355	17	16
774.746094	0.3041	18	17
777.591435	0.1257	19	18
780.437508	0.1570	20	19
783.284419	0.2520	21	20
786.132611	0.0717	22	21
788.981300	0.0694	23	22
791.830669	0.0373	24	23
794.680169	0.7597	25	24

Table 52 continued

07(7)0-06(6)0 DCNECS

observed	10^3(o-c)	J′	J″
797.531893	0.0330	26	25
800.383642	0.1788	27	26
803.235784	0.0822	28	27
806.088815	0.2749	29	28
808.942631	0.6883	30	29
811.796133	0.2578	31	30
814.650890	0.5866	32	31
817.504889	0.3049	33	32
820.360510	0.0042	34	33
823.216418	0.1859	35	34
826.072013	0.3026	36	35
831.788041*	2.5842	38	37

THE RMS DEV = 0.000320 FOR 50 LINES

Table 53

07(7)0-06(6)0 HCNETS

observed	10^3(o-c)	J′	J″
623.667151	0.9562	35	36
626.401072*	1.8631	34	35
629.137073*	1.7770	33	34
631.875781	1.3623	32	33
828.931966*	2.3778	37	36
831.787759	1.0995	38	37
834.641347*	2.7853	39	38

THE RMS DEV = 0.001152 FOR 3 LINES

Table 54

07(7)0-06(6)0 HCNETS

observed	10^3(o-c)	J′	J″
634.616299	0.0538	31	32
637.361345	0.1588	30	31
642.860100	0.4252	28	29
645.614946	0.6049	27	28
651.130672	0.2344	25	26
653.892562	0.0944	24	25
656.657606	0.0072	23	24
659.424899	0.3755	22	23
664.968371	0.2029	20	21
667.744277	0.1353	19	20
670.521964	0.3092	18	19
678.870589*	1.0901	15	16
684.449674	0.4032	13	14
687.242223	0.5741	12	13
695.637016*	2.4564	9	10
701.242304*	2.3093	7	8
743.523450	0.0792	7	6
746.355289	0.3128	8	7
749.189356	0.2798	9	8
752.022494*	1.4152	10	9
754.860049	0.0093	11	10
757.697317	0.1637	12	11
760.536378	0.2438	13	12
763.375779	0.1973	14	13
766.217105	0.1395	15	14
769.057298*	1.7615	16	15
771.902141	0.0765	17	16
774.746166	0.2321	18	17
777.591360	0.2007	19	18
780.437792	0.1269	20	19
783.284403	0.2680	21	20
786.132797	0.2577	22	21
788.981257	0.0264	23	22
791.830676	0.0303	24	23
794.680937	0.0082	25	24
797.532101	0.2410	26	25
800.383691	0.2278	27	26
803.235856	0.1542	28	27
806.089044	0.5039	29	28
808.941728	0.2146	30	29
811.796192	0.3168	31	30
814.650348	0.0446	32	31
817.505984	0.7900	33	32
820.360622	0.1077	34	33
823.215987	0.2450	35	34
826.071744	0.5716	36	35

THE RMS DEV = 0.000295 FOR 40 LINES

Table 55

07(7)0-06(6)0 HCNETS

observed	10^3(o-c)	J′	J″
723.791974	1.1623	7	7
723.806685*	1.9000	8	8
723.820713	0.2098	9	9
723.838032	0.0663	10	10
723.857428	0.2563	11	11
723.879153	1.0326	12	12
723.901167	0.3560	13	13
723.925270	0.0273	14	14
723.951150	0.2641	15	15
723.978838	0.4866	16	16
724.008760	0.2127	17	17
724.040505	0.1477	18	18
724.074157	0.6802	19	19
724.109663*	1.3330	20	20
724.144877	0.0380	21	21
724.182276	0.9545	22	22
724.222334	0.9405	23	23
724.264974	0.0710	24	24
724.308688	0.1478	25	25
724.354517	0.7596	26	26
724.400531	0.1633	27	27
724.449269	0.0794	28	28
724.495245*	4.4717	29	29
724.551747	0.0490	30	30
724.605580	0.0028	31	31
724.660360	0.7133	32	32
724.718160	0.1031	33	33
724.776737	0.4103	34	34
724.837815	0.0942	35	35
724.963252	0.6572	37	37
725.028790	0.7195	38	38
725.096523	0.2455	39	39
725.167491*	1.8153	40	40
725.310054*	1.6711	42	42
725.384675*	2.5233	43	43
725.461683*	4.1779	44	44
725.538274*	3.8543	45	45
725.615659*	2.7908	46	46

THE RMS DEV = 0.000513 FOR 28 LINES

Table 56

06(0)0-05(1E)0 DCNECS

observed	10^3(o-c)	J′	J″
667.899390	0.4556	1	2
662.434048	0.4828	3	4
657.079085	0.0331	5	6
651.818941	0.0872	7	8
649.218137	0.1968	8	9
641.498174	0.0165	11	12
638.939849	0.6129	12	13
636.385003	0.2903	13	14
631.266052	0.1624	15	16
628.697788	0.0821	16	17
626.120604	0.1080	17	18
623.532853	0.3347	18	19
620.933410	0.5158	19	20
618.320026	1.0528	20	21
615.695786	1.1815	21	22
613.055173*	5.6477	22	23
610.419713*	6.5296	23	24
687.925642	0.4500	5	4
690.890545	0.5549	6	5
693.872319*	1.2835	7	6
699.889671*	1.8821	9	8
702.912354	0.8091	10	9
729.999579	0.3771	19	18
732.948108	0.7193	20	19
735.880341	0.8966	21	20
738.792382*	5.0005	22	21
741.689565*	8.1859	23	22

THE RMS DEV = 0.000557 FOR 21 LINES

Table 57

06(0)0-05(1F)0 DCNECS

observed	10^3(o-c)	J′	J″
666.048367*	3.1223	23	23
667.539188*	1.5859	21	21
668.224203	0.1769	20	20
668.864020	0.3684	19	19
669.456702	0.0995	18	18
670.499069	0.0319	16	16
671.351251	0.7454	14	14
671.707269	0.0788	13	13
672.020833	0.2381	12	12
672.294431	0.0478	11	11
672.530181	0.1351	10	10
672.903252	0.3350	8	8
673.046591	0.6050	7	7
673.164269	0.0167	6	6
673.260290	0.1228	5	5
673.336824	0.0155	4	4
673.395598	0.0572	3	3
673.438364	0.2253	2	2

THE RMS DEV = 0.000292 FOR 16 LINES

Table 58

06(0E)0-05(1E)0 HCNETS

observed	10^3(o-c)	J′	J″
578.064424	0.2792	35	36
580.782220	0.4793	34	35
583.498796	0.1263	33	34
586.213332	0.4918	32	33
588.924239	0.3855	31	32
591.631871	0.5783	30	31
594.335009	0.5931	29	30
597.033374	0.9637	28	29
599.725622*	1.2251	27	28
602.407480*	1.9615	26	27
605.088069*	1.4966	25	26
607.757206*	2.4002	24	25
615.695567*	1.4005	21	22
618.320404	0.6748	20	21
620.932979	0.0848	19	20
623.532861	0.3427	18	19
626.120416	0.0799	17	18
628.698131	0.2608	16	17
631.266098	0.1164	15	16
636.385172	0.4593	13	14
638.940670	0.2080	12	13
641.498451	0.2604	11	12
644.061519	0.1270	10	11
646.631558*	2.0557	9	10
649.218125	0.2088	8	9
651.818926	0.0722	7	8
654.438546	0.3342	6	7
657.078947	0.1711	5	6
662.433778	0.7528	3	4
665.148494*	4.0087	2	3
667.898252	0.6823	1	2
682.070110*	2.6449	3	2
687.925344	0.7480	5	4
690.890180	0.1899	6	5
693.872712	0.8905	7	6
696.875000	1.0367	8	7
699.889652*	1.8631	9	8
702.910986	0.5588	10	9
708.975518*	1.5154	12	11
718.048048*	2.5125	15	14
721.059830	1.1390	16	15
724.053680	0.3209	17	16
727.035518	0.7144	18	17
729.999604	0.3521	19	18
732.948342	0.4853	20	19

Table 58 continued
06(0E)0-05(1E)0 HCNETS

observed	10^3(o-c)	J′	J″
735.879903*	1.3346	21	20
738.792279*	5.1035	22	21
741.698412	0.6610	23	22
744.585395*	2.3511	24	23
747.456161*	2.0592	25	24
750.312717	0.8743	26	25
753.154101*	3.1103	27	26
755.992147	1.0049	28	27
758.815482	0.9518	29	28
761.629011	0.7974	30	29
764.433012	0.0503	31	30
767.230002	0.5331	32	31
770.018721	0.3679	33	32
772.800186	0.0292	34	33
775.575401	0.0503	35	34
778.343997	0.3407	36	35
781.106799	0.6596	37	36
783.863840*	1.1576	38	37
786.616788	0.3998	39	38
789.362944*	1.2729	40	39
794.841370*	1.9774	42	41

THE RMS DEV = 0.000555 FOR 47 LINES

Table 59
06(0E)0-05(1F)0 HCNETS

observed	10^3(o-c)	J′	J″
673.438604	0.4653	2	2
673.395827	0.2862	3	3
673.336268	0.5715	4	4
673.260396	0.0168	5	5
673.164100	0.1522	6	6
673.046614	0.6280	7	7
672.902913	0.0039	8	8
672.731496	0.5831	9	9
672.530443	0.1268	10	10
672.294413	0.0298	11	11
672.021050	0.0211	12	12
671.707504	0.1561	13	13
671.350937	0.4314	14	14
670.949481	1.1759	15	15
670.499359	0.2580	16	16
670.001278	0.6587	17	17
669.456102	0.5004	18	18
668.863670	0.0184	19	19
668.224507	0.1270	20	20
667.539636*	1.1379	21	21
666.810852*	4.5830	22	22
665.255772*	3.2823	24	24
664.424739*	2.4269	25	25
663.566047	0.9955	26	26
662.686091*	1.1741	27	27

THE RMS DEV = 0.000487 FOR 20 LINES

Table 60
06(2E)0-05(1E)0 DCNECS

observed	10^3(o-c)	J′	J″
735.398327	0.4283	15	14
738.921517	0.7911	16	15
746.186278*	1.8179	18	17
749.931719*	1.3314	19	18
753.754036	0.6200	20	19
757.649538	0.6067	21	20
765.662430	0.8624	23	22

THE RMS DEV = 0.000679 FOR 5 LINES

Table 61

06(2F)0-05(1F)0 DCNECS

observed	10^3(o-c)	J′	J″
721.935604	0.9381	12	11
727.209611	0.2313	14	13
732.426127	0.4867	16	15
735.014479	0.0837	17	16
737.589963	0.5846	18	17
740.152212	0.2322	19	18
742.704363	0.2688	20	19
745.246680	0.4674	21	20
752.830890	0.4482	24	23
760.388187	0.0769	27	26
762.910598	0.1613	28	27
765.438686	0.6648	29	28
770.517016	0.0152	31	30
773.072097	0.0476	32	31
775.639812	0.4315	33	32
780.814869	0.0732	35	34

THE RMS DEV = 0.000413 FOR 16 LINES

Table 62

06(2E)0-05(1F)0 DCNECS

observed	10^3(o-c)	J′	J″
688.884805	0.0521	3	3
688.828777	0.1340	4	4
688.688186	1.0149	6	6
688.531063	0.2114	8	8
688.453979	0.3773	9	9
688.282994	0.1376	12	12
688.262931*	2.1776	13	13
688.262931	0.9211	14	14
688.296360	0.1398	15	15
688.466508	0.3823	17	17
688.610160	0.2650	18	18
688.796029	0.7168	19	19
689.028954	0.0145	20	20
689.308358	0.1096	21	21
690.015973	0.6669	23	23
690.444784	0.2060	24	24
690.926746	0.0460	25	25
692.688366	0.4261	28	28
693.382013	0.0498	29	29
694.126980	0.1904	30	30
694.923081	0.0917	31	31
695.768070	0.0804	32	32
696.659854	0.1978	33	33
697.594429	0.1626	34	34

THE RMS DEV = 0.000399 FOR 22 LINES

Table 63

06(2F)0-05(1E)0 DCNECS

observed	10^3(o-c)	J′	J″
689.057726	1.0469	2	2
689.139909	0.0820	3	3
689.250866	0.1423	4	4
689.555773	0.0826	6	6
689.749881	0.2519	7	7
689.971951	0.2833	8	8
690.222348	0.1919	9	9
690.498614*	1.2606	10	10
690.806399	1.0580	11	11
691.139294	0.8208	12	12
691.499654	0.5032	13	13
691.886719	0.4881	14	14
692.744263	0.2601	16	16
693.212649	0.5153	17	17
693.707585	0.3524	18	18
694.228101	0.2590	19	19
694.773597	0.2774	20	20
695.343941	0.0947	21	21
695.938559*	0.9937	22	22
696.554103	0.1430	23	23
697.193867	0.8348	24	24
697.850920*	2.0807	25	25
698.526702*	6.4665	26	26
699.232460	0.0401	27	27
699.930528*	9.3886	28	28
699.946876*	3.0406	28	28

THE RMS DEV = 0.000496 FOR 20 LINES

Table 64

06(2F)0-05(1F)0 HCNETS

observed	10^3(o-c)	J′	J″
584.278395*	1.3009	34	35
587.182685	0.2736	33	34
590.107528	0.1191	32	33
593.052748	0.6753	31	32
596.018571*	0.9921	30	31
599.005167	0.2005	29	30
602.007457	0.7306	28	29
608.060733	0.1410	26	27
611.106727	0.5173	25	26
614.162210	0.9675	24	25
617.223330	0.3618	23	24
620.290999	0.3046	22	23
623.361269	0.6297	21	22
626.433578	0.1672	20	21
629.503477	0.4356	19	20
632.571105	0.5279	18	19
635.634834	0.1292	17	18
638.692333	0.1259	16	17
641.742826	0.0077	15	16
644.784583	0.3686	14	15
647.819550*	1.7345	13	14
650.844361*	3.8069	12	13
653.853054	0.6444	11	12
656.853099	0.3749	10	11
659.841799	0.8717	9	10
662.817266	0.7413	8	9
665.777378*	1.7086	7	8
719.269162*	5.1030	11	10
721.935779	1.1131	12	11
724.581123*	1.3630	13	12
727.209769	0.0733	14	13
729.824402*	0.8957	15	14
732.426318	0.2957	16	15
735.014136	0.2592	17	16
737.588975	0.4033	18	17
740.152371	0.0732	19	18
742.704220	0.4118	20	19
745.247296	0.1485	21	20
752.830710	0.6282	24	23
755.350140	0.5446	25	24
757.866851*	2.0571	26	25
760.388001	0.1090	27	26
762.910859	0.4223	28	27
765.438171	0.1498	29	28
767.975903*	2.9853	30	29
770.516267*	0.7642	31	30

Table 64 continued

06(2F)0-05(1F)0 HCNETS

observed	10^3(o-c)	J′	J″
773.072157	0.1076	32	31
775.638861	0.5194	33	32
778.213953*	6.1517	34	33
786.047989	0.0039	37	36
788.685893	0.0735	38	37
791.337466	0.3733	39	38
794.001462	0.5560	40	39
796.674669*	1.5003	41	40
799.361168	0.4891	42	41
802.055350	0.7106	43	42

THE RMS DEV = 0.000473 FOR 42 LINES

Table 65

06(2E)0-05(1E)0 HCNETS

observed	10^3(o-c)	J′	J″
639.124161*	1.5064	20	21
642.686295	0.4843	18	19
644.584619	0.0657	17	18
646.562764*	1.2766	16	17
648.613867	0.5422	15	16
650.740479	0.4990	14	15
652.937730	0.3881	13	14
655.202458	0.2108	12	13
657.532906*	3.5042	11	12
659.915525	0.1446	10	11
662.355867	0.0239	9	10
664.848880*	2.1886	8	9
669.962838	0.3223	6	7
672.581695	0.1008	5	6
675.242258*	6.2751	4	5
677.932742*	8.9990	3	4
700.476165	0.4191	4	3
703.428109	0.4591	5	4
706.414781	0.1576	6	5
709.437174*	1.2872	7	6
721.976240*	3.4950	11	10
725.233225*	2.5627	12	11
728.558053	0.6194	13	12
731.945067	0.1204	14	13
735.398788	0.0326	15	14
738.921594	0.7141	16	15
742.515920*	2.2698	17	16
746.187125	0.9709	18	17
749.931552*	1.4984	19	18
753.753552	0.1360	20	19
757.648524	0.4072	21	20
761.617550*	1.2134	22	21
765.661944	0.3764	23	22

THE RMS DEV = 0.000420 FOR 21 LINES

Table 66

06(2F)0-05(1E)0 HCNETS

observed	10^3(o-c)	J′	J″
689.057147	0.4679	2	2
689.139726	0.1009	3	3
689.251764	1.0403	4	4
689.389304	0.0881	5	5
689.555979	0.1233	6	6
689.749636	0.4969	7	7
689.972417	0.1826	8	8
690.221773	0.3830	9	9
690.499600	0.2746	10	10
690.806853*	1.5120	11	11
691.139693*	1.2198	12	12
691.498973	0.1777	13	13
691.887115	0.0921	14	14
692.301137*	1.2866	15	15
692.744354	0.1691	16	16
693.212957	0.2073	17	17
693.707427	0.5104	18	18
694.228312	0.0480	19	19
694.773661	0.2134	20	20
695.343671	0.1752	21	21
695.939281*	1.7157	22	22
696.554097	0.1490	23	23
697.193313	0.2808	24	24
697.850308*	2.6927	25	25
698.534060	0.8914	26	26
699.232824	0.3238	27	27
699.949298	0.6186	28	28
700.683809	0.4967	29	29
702.200838*	1.3883	31	31
702.980281*	2.3706	32	32
703.770078*	1.3000	33	33
704.573331*	2.3937	34	34
706.194068*	0.7670	36	36
707.022736*	1.7978	37	37

THE RMS DEV = 0.000413 FOR 22 LINES

Table 67

06(2E)0-05(1F)0 HCNETS

observed	10^3(o-c)	J′	J″
688.930296*	1.8980	2	2
688.883999	0.7538	3	3
688.829084	0.1729	4	4
688.766171*	3.2820	5	5
688.687126*	2.0749	6	6
688.610146	0.6987	7	7
688.530945	0.3294	8	8
688.454194	0.1623	9	9
688.385428	1.1235	10	10
688.324082*	1.5123	11	11
688.283009	0.1526	12	12
688.263152*	2.3986	13	13
688.296665	0.1651	15	15
688.362568	0.1502	16	16
688.466376	0.2503	17	17
688.796618	0.1278	19	19
689.028930	0.0385	20	20
689.308202	0.2656	21	21
689.636610	0.2058	22	22
690.016035	0.7289	23	23
690.444607	0.3830	24	24
690.927073	0.3730	25	25
692.688709	0.0831	28	28
693.382390	0.4268	29	29
694.126802	0.3684	30	30
694.922825	0.3477	31	31
695.768663	0.5125	32	32
696.659666	0.0098	33	33
697.594531	0.0606	34	34
698.570535*	1.3177	35	35
700.623962*	4.2678	37	37
701.690204*	4.7361	38	38

THE RMS DEV = 0.000422 FOR 23 LINES

Table 68

06(4)0-05(3)0 DCNECS

observed	10^3(o-c)	J′	J″
704.676695	0.0190	5	5
704.733219	0.0793	7	7
704.848282	0.0662	10	10

THE RMS DEV = 0.000061 FOR 3 LINES

Table 69

06(4F)0-05(3E)0 DCNECS

observed	10^3(o-c)	J′	J″
705.003574	0.1028	13	13
705.126719	1.0612	15	15
705.350960	0.2942	18	18
705.436283	0.3137	19	19
705.625316	0.5369	21	21

THE RMS DEV = 0.000567 FOR 5 LINES

Table 70

06(4E)0-05(3F)0 DCNECS

observed	10^3(o-c)	J′	J″
704.990783	0.2941	13	13
705.097607	0.3189	15	15
705.153922	0.3938	16	16
705.264460	0.4410	18	18
705.318944	0.0105	19	19
705.371100	0.5607	20	20

THE RMS DEV = 0.000377 FOR 6 LINES

Table 71

06(4)0-05(3)0 DCNECS

observed	10^3(o-c)	J′	J″
721.641656	0.0486	6	5
724.495577	0.7330	7	6
727.351642	0.4299	8	7
730.213122	0.0586	9	8
733.078132	0.0849	10	9
738.816917*	1.5793	12	11

THE RMS DEV = 0.000383 FOR 5 LINES

Table 72

06(4E)0-05(3E)0 DCNECS

observed	10^3(o-c)	J′	J″
721.641656	0.0252	6	5
724.495577	0.6626	7	6
727.351642	0.6065	8	7
730.213122	0.4486	9	8
733.078132	0.6982	10	9
738.816917*	4.1479	12	11
741.699635*	1.5657	13	12
750.353704	0.0868	16	15
753.247461	0.5083	17	16
756.146187	0.9940	18	17
759.052055	0.1325	19	18
761.962578	0.2380	20	19
764.880792	0.1649	21	20
767.806512	0.2317	22	21
770.740838	0.0399	23	22
773.685417	0.3003	24	23
779.612372	0.0278	26	25

THE RMS DEV = 0.000447 FOR 15 LINES

Table 73

06(4F)0-05(3F)0 DCNECS

observed	10^3(o-c)	J′	J″
741.689565	0.0985	13	12
747.443494	0.7152	15	14
750.321112	0.2977	16	15
753.200771	0.3576	17	16
756.079043	0.1192	18	17
758.955615	0.3173	19	18
761.830304	0.0288	20	19

THE RMS DEV = 0.000349 FOR 7 LINES

Table 74

06(4)0-05(3)0 HCNETS

observed	10^3(o-c)	J′	J″
704.676957	0.2810	5	5
704.700766*	2.0551	6	6
704.733466	0.3263	7	7
704.768041	0.4949	8	8
704.805745	0.1969	9	9
704.848135	0.0807	10	10
704.891339*	2.9032	11	11

THE RMS DEV = 0.000308 FOR 5 LINES

Table 75

06(4E)0-05(3F)0 HCNETS

observed	10^3(o-c)	J′	J″
704.939970	0.1580	12	12
704.990784	0.2951	13	13
705.047237*	3.8653	14	14
705.097776	0.1499	15	15
705.154303	0.7748	16	16
705.210812*	1.3525	17	17
705.263655*	1.2460	18	18
705.318735	0.1984	19	19
705.371627	1.0877	20	20
705.418921	0.3085	21	21
705.500809*	1.4073	23	23
705.529049	0.6101	24	24
705.552359	0.8064	25	25
705.564980*	0.9907	26	26

THE RMS DEV = 0.000585 FOR 9 LINES

Table 76

06(4F)0-05(3E)0 HCNETS

observed	10^3(o-c)	J′	J″
704.946108*	1.8438	12	12
705.003626	0.1548	13	13
705.064841*	1.4803	14	14
705.125296*	2.4842	15	15
705.352287*	1.6212	18	18
705.435769	0.2002	19	19
705.529049*	1.5340	20	20
705.625843	0.0099	21	21
705.733159*	1.5537	22	22
705.968571	0.3839	24	24
706.096553*	4.0414	25	25
706.243636	0.0760	26	26
706.397470	0.5336	27	27
706.565536	0.6536	28	28
706.745767	0.5887	29	29
706.941527*	1.6387	30	30
707.150675*	0.6642	31	31
707.376918*	0.3841	32	32
707.622450*	2.0276	33	33
707.882232*	0.3732	34	34
708.165096*	1.1317	35	35
708.466698*	1.3759	36	36
708.792209*	4.7763	37	37
709.130114*	0.8575	38	38
709.499675*	3.1471	39	39
709.888224*	3.6266	40	40
710.296599*	1.0219	41	41
710.731034*	1.2734	42	42
712.699864*	0.7740	46	46
713.252472*	1.0070	47	47

THE RMS DEV = 0.000399 FOR 8 LINES

Table 77

06(4E)0-05(3E)0 HCNETS

observed	10^3(o-c)	J′	J″
614.874754	0.9720	32	33
617.356186	0.1787	31	32
619.873056	0.7808	30	31
622.419418	0.3165	29	30
624.995497	0.1777	28	29
627.596162	0.2574	27	28
630.217907	0.7515	26	27
632.861336	0.3050	25	26
638.195812	0.0584	23	24
640.884990	0.7103	22	23
643.585237	0.4945	21	22
646.297051*	1.2818	20	21
649.016478	0.3047	19	20
651.745031	0.0929	18	19
654.480644	0.5574	17	18
657.223342	0.8992	16	17
662.727761	0.6121	14	15
665.487962	0.6304	13	14
741.698412	0.3427	13	12
744.577811*	1.2777	14	13
747.464076	0.1843	15	14
750.353461	0.3298	16	15
753.247872	0.0973	17	16
756.146274	0.9070	18	17
759.051780	0.1424	19	18
761.962755	0.0610	20	19
764.880533	0.0940	21	20
767.806509	0.2287	22	21
770.740839	0.0389	23	22
773.685481	0.2363	24	23
779.611162	1.2378	26	25
785.601550	0.2321	28	27
788.625314	0.3588	29	28
791.671044	0.6916	30	29
794.744892	0.0862	31	30
797.847335	0.2813	32	31
800.983210	0.7056	33	32
804.156527*	1.2021	34	33
807.372184*	1.1407	35	34
810.633624*	1.5372	36	35

THE RMS DEV = 0.000513 FOR 35 LINES

Table 78

06(4F)0-05(3F)0 HCNETS

observed	10^3(o-c)	J′	J″
605.736793*	0.5195	34	35
608.754514*	0.7875	33	34
611.746737	0.2137	32	33
623.478438*	1.7115	28	29
626.354332	0.5568	27	28
629.211944	0.3127	26	27
632.052718	0.5342	25	26
634.878144	0.7144	24	25
637.688644	0.7616	23	24
643.281224	0.3233	21	22
646.065208	0.2923	20	21
648.843429	0.2634	19	20
651.618377	0.7002	18	19
657.159312	0.8777	16	17
659.928329	0.8114	15	16
662.696468	0.5581	14	15
665.467479	0.2750	13	14
738.817405*	1.4771	12	11
741.689641	0.1745	13	12
744.564839	0.4180	14	13
747.443410	0.6312	15	14
750.321476	0.0662	16	15
753.200122	0.2913	17	16
756.078760	0.1637	18	17
758.955576	0.3563	19	18
761.830456	0.1808	20	19
764.701464	0.8410	21	20
770.423407	0.2480	23	22
773.272876*	1.0408	24	23
776.110242	0.7277	25	24
778.934464	0.3824	26	25
781.744065	0.7306	27	26
784.535779	0.7483	28	27
787.307656	0.7076	29	28
792.784473*	1.4044	31	30
795.484883*	1.3340	32	31
798.158407*	1.4656	33	32
800.803175*	1.0362	34	33
803.420128*	1.7135	35	34
806.007390*	1.9503	36	35
808.564621*	1.3417	37	36
811.093907*	1.5350	38	37
813.594465*	0.9689	39	38
820.939734*	1.2687	42	41
823.344920*	1.6559	43	42
825.724767*	0.2164	44	43

THE RMS DEV = 0.000535 FOR 28 LINES

Table 79

06(4)0-05(3)0 HCNETS

observed	10^3(o-c)	J′	J″
673.794723*	1.1998	10	11
679.360506	0.1986	8	9
682.149330	0.7162	7	8
684.941396	0.2791	6	7
687.736814*	1.0757	5	6
690.540984*	1.9912	4	5
715.948304	0.8140	4	3
718.790536*	1.9245	5	4
721.641610	0.0026	6	5
724.495245	0.4010	7	6
727.351730	0.3419	8	7
730.213269	0.0883	9	8
733.078022	0.0250	10	9
735.949929*	3.3937	11	10

THE RMS DEV = 0.000419 FOR 9 LINES

Table 80

06(6E)0-05(5F)0 DCNECS

observed	10^3(o-c)	J′	J″
721.840734	0.3099	34	34
721.925508	0.3815	35	35
722.097226	0.7766	37	37
722.187021	0.5643	38	38

THE RMS DEV = 0.000539 FOR 4 LINES

Table 81

06(6F)0-05(5E)0 DCNECS

observed	10^3(o-c)	J′	J″
721.935604*	3.0116	35	35
722.026917*	1.7641	36	36
722.121970	0.5378	37	37
722.216761	0.2121	38	38
722.315215	0.2172	39	39

THE RMS DEV = 0.000357 FOR 3 LINES

Table 82
06(6)0-05(5)0 DCNECS

observed	10^3(o-c)	J′	J″
720.396027	0.2381	6	6
720.434974	0.2472	8	8
720.457757	0.3051	9	9
720.484227	0.2607	10	10
720.512215	0.2167	11	11
720.543210	0.2403	12	12
720.576822	0.1910	13	13
720.612918	0.1922	14	14
720.651367	0.3645	15	15
720.692407	0.4589	16	16
720.782961	0.3346	18	18
720.831037	0.1897	19	19
720.882199	0.0902	20	20
720.935428	0.3712	21	21
720.991717	0.0245	22	22
721.050150	0.0498	23	23
721.174081	0.0822	25	25
721.239446	0.0569	26	26
721.307401	0.0492	27	27
721.378024	0.4990	28	28
648.072975*	1.5746	25	26
653.544727	0.4700	23	24
656.292530	0.3858	22	23
659.043472	1.0391	21	22
661.796323	0.2797	20	21
664.552941	0.0131	19	20
667.313352	0.2092	18	19
670.078261*	1.6756	17	18
672.843014	0.2428	16	17
675.603764*	9.3669	15	16
678.380157*	6.0232	14	15
681.161597	0.7794	13	14
683.939951*	1.7388	12	13
686.724321	0.2310	11	12
689.504794*	4.7510	10	11
692.299208	1.1853	9	10
695.086900*	2.5890	8	9
697.884034	0.1242	7	8
737.294681	0.1656	6	5
740.128906	0.3995	7	6
742.964831	0.0471	8	7
745.803423	0.1232	9	8
748.643612	0.3937	10	9
751.486677	0.1760	11	10
754.331730	0.0622	12	11
757.178563	0.2105	13	12

Table 82 continued
06(6)0-05(5)0 DCNECS

observed	10^3(o-c)	J′	J″
760.027513	0.2338	14	13
762.878766	0.1045	15	14
765.731378	0.0885	16	15
768.585874	0.2367	17	16
771.442253	0.2895	18	17
774.300411	0.2993	19	18
777.158961*	1.6009	20	19
780.022011	0.0342	21	20
782.884903	0.2049	22	21
785.749626	0.0715	23	22
788.615709	0.0524	24	23
791.483519	0.2720	25	24
794.352061	0.0403	26	25
797.222800	0.5283	27	26
800.093931	0.2259	28	27
802.967129	0.7808	29	28
805.840353	0.2050	30	29
808.714964	0.0867	31	30
811.590673	0.3297	32	31
814.466931	1.0187	33	32
817.350644*	4.8069	34	33
820.231192*	6.5828	35	34
823.112001*	7.7913	36	35
825.993961*	9.3799	37	36
828.880054*	4.3894	38	37

THE RMS DEV = 0.000373 FOR 57 LINES

Table 83

05(1F)0-04(0)0 DCNECS

observed	10^3(o-c)	J′	J″
686.039856	0.7594	1	1
686.097374	0.0047	2	2
686.182357	0.5381	3	3
686.297969	0.3612	4	4
686.441542	0.5609	5	5
686.617027	0.0776	6	6
686.823429	0.0368	7	7
687.640901	0.0363	10	10
687.983396	0.1901	11	11
688.362667	0.2207	12	12
688.779603	0.1134	13	13
689.235459	0.5800	14	14
689.732252	0.0126	15	15
690.268933	0.0711	16	16
690.846863	0.3010	17	17
691.463113*	1.7600	18	18
692.123723	0.2727	19	19
692.821372	0.0273	20	20
694.328542	0.3238	22	22
695.134191	0.0072	23	23
695.970052	0.2052	24	24
697.721759	0.1577	26	26
698.630309	0.6290	27	27
699.554265	0.0546	28	28
700.491718	0.0109	29	29
705.249054	0.1223	34	34
707.133950	0.2950	36	36

THE RMS DEV = 0.000316 FOR 26 LINES

Table 84

05(1E)0-04(0)0 DCNECS

observed	10^3(o-c)	J′	J″
566.695764*	1.9407	41	42
572.168863	0.1646	39	40
574.908701	0.1647	38	39
577.652045	0.4307	37	38
580.397794	0.4458	36	37
583.148789	0.0268	35	36
585.903629	0.0551	34	35
588.662889	0.2232	33	34
591.427942	0.0823	32	33
594.198187	0.1537	31	32
596.975090	0.0296	30	31
599.758845	0.0523	29	30
602.549767	0.2111	28	29
605.349661	0.3577	27	28
608.157219	0.1664	26	27
610.974612	0.1981	25	26
613.802337	0.2332	24	25
616.639674	0.0290	23	24
619.486846*	1.0761	22	23
622.346573	0.3452	21	22
625.217731*	1.0715	20	21
628.096631	0.2662	19	20
630.987040	0.1057	18	19
633.886499	0.1729	17	18
636.794407	0.0907	16	17
639.709350	0.0642	15	16
642.629735	0.2741	14	15
645.554723	0.0192	13	14
648.481882	0.0846	12	13
651.408204*	1.3108	11	12
654.336174	0.1187	10	11
657.259775	0.1390	9	10
660.178826	0.2939	8	9
663.091337	0.2276	7	8
665.996394	0.5447	6	7
668.891197	0.1699	5	6
674.648578*	1.3566	3	4
680.357230*	1.5315	1	2
691.607419	0.1182	2	1
694.382896	0.1187	3	2
697.143725	0.1800	4	3
699.889671	0.8649	5	4
702.624500	1.1022	6	5
705.345153*	2.0078	7	6
710.746648	0.0907	9	8
713.433349	0.6419	10	9

Table 84 continued

05(1E)0-04(0)0 DCNECS

observed	10^3(o-c)	J′	J″
716.109928	0.1392	11	10
718.779182	0.2165	12	11
721.443938	0.8825	13	12
726.758698	0.2151	15	14
729.414325	0.0302	16	15
732.070215	0.0200	17	16
734.727961	0.0417	18	17
737.388924	0.0332	19	18
740.054517	0.3092	20	19
742.724765	0.1192	21	20
745.401030	0.1004	22	21
748.083468	0.0120	23	22
750.772445	0.0447	24	23
756.169937	0.3038	26	25
758.876204*	1.0071	27	26
761.590343	0.1430	28	27
764.308276	0.2409	29	28
767.030184	0.0916	30	29
769.755885	0.1714	31	30
772.484332	0.1040	32	31
775.214741	0.2285	33	32
777.947582	0.2917	34	33
780.680634	0.0643	35	34
783.414025	0.1962	36	35
786.147442	0.2543	37	36
788.880466	0.0194	38	37
791.611791	0.3283	39	38
794.340552*	1.6149	40	39
797.069993	0.2416	41	40
799.796243	0.2799	42	41
802.518805	0.2201	43	42
805.238333	0.7897	44	43
807.953571*	2.4133	45	44
810.669934	0.5720	46	45
813.379287	0.2582	47	46
816.085841	1.0645	48	47
818.786431	0.0179	49	48
821.483726	0.0350	50	49
824.176757	0.1018	51	50
826.864662	0.2788	52	51
829.547256	1.2171	53	52
832.216957*	0.1577	54	53

THE RMS DEV = 0.000353 FOR 77 LINES

Table 85

05(1E)0-04(0E)0 HCNETS

observed	10^3(o-c)	J′	J″
539.475531	0.0539	51	52
547.622234	0.1288	48	49
550.341183	0.0086	47	48
553.061407	0.7349	46	47
555.783971	1.0489	45	46
558.509454	0.4518	44	45
561.237156	0.2577	43	44
563.965758	0.3588	42	43
566.697684	0.0207	41	42
569.431141	0.6910	40	41
572.168645	0.0533	39	40
574.908328	0.2082	38	39
577.651404	0.2102	37	38
580.397824	0.4158	36	37
583.148432	0.3301	35	36
585.903406	0.1678	34	35
588.662931	0.1812	33	34
591.427711	0.1486	32	33
594.198093	0.2477	31	32
596.974779	0.3406	30	31
599.758808	0.0153	29	30
602.549879	0.0991	28	29
605.349216	0.0872	27	28
608.157337	0.0484	26	27
610.974747	0.0631	25	26
613.802235	0.1312	24	25
616.639717	0.0139	23	24
619.487636	0.2861	22	23
622.346629	0.2892	21	22
625.217853	1.1935	20	21
628.096848	0.0492	19	20
630.987137	0.0087	18	19
633.886685	0.0130	17	18
636.794332	0.1657	16	17
639.709551	0.1367	15	16
642.630003	0.0061	14	15
645.554698	0.0057	13	14
648.481738	0.0593	12	13
651.408235*	1.2798	11	12
654.336148	0.0927	10	11
657.259538	0.0979	9	10
660.178601	0.0689	8	9
663.090940	0.1693	7	8
665.996373	0.5237	6	7
668.891075	0.2919	5	6
671.776186	0.2378	4	5

Table 85 continued

05(1E)0-04(0E)0 HCNETS

observed	10^3(o-c)	J′	J″
674.650287	0.3523	3	4
677.512491*	1.5201	2	3
680.357823	0.9385	1	2
688.808533*	8.7720	1	0
691.607283	0.2542	2	1
694.383311	0.2962	3	2
697.143637	0.2680	4	3
699.889652	0.8839	5	4
702.623840	0.4422	6	5
705.344850*	1.7048	7	6
708.055216*	4.6180	8	7
710.746593	0.1457	9	8
713.432990	0.2829	10	9
716.109373	0.4158	11	10
718.779503	0.1044	12	11
721.443823	0.7675	13	12
724.102082	0.2696	14	13
726.758757	0.1561	15	14
729.414345	0.0102	16	15
732.070159	0.0760	17	16
734.727938	0.0647	18	17
737.388738	0.2192	19	18
740.054738	0.5302	20	19
742.724674	0.0282	21	20
745.400951	0.0214	22	21
748.083485	0.0049	23	22
750.772508	0.0182	24	23
753.469158*	1.2167	25	24
756.169811	0.1778	26	25
758.876287	0.9241	27	26
761.590174	0.0259	28	27
764.307867	0.1680	29	28
767.030071	0.0213	30	29
769.755511	0.2025	31	30
772.484144	0.0839	32	31
775.213941	1.0285	33	32
777.948197	0.9067	34	33
780.680532	0.0376	35	34
783.414090	0.1312	36	35
786.147527	0.1693	37	36
788.880448	0.0374	38	37
791.612173	0.0536	39	38
794.341317	0.8499	40	39
797.070322	0.0873	41	40
799.796559	0.5959	42	41

Table 85 continued

05(1E)0-04(0E)0 HCNETS

observed	10^3(o-c)	J′	J″
802.519100	0.0748	43	42
805.238842	0.2807	44	43
807.953730*	2.2543	45	44
810.669552	0.1900	46	45
813.378885	0.1437	47	46
816.084348	0.4284	48	47
818.786342	0.0710	49	48
821.482865	0.8960	50	49
824.177485	0.8298	51	50
826.864852	0.0888	52	51
829.548420	0.0531	53	52
832.227232	0.1172	54	53

THE RMS DEV = 0.000391 FOR 95 LINES

Table 86

05(1F)0-04(0E)0 HCNETS

observed	10^3(o-c)	J′	J″
686.040758	0.1425	1	1
686.097387	0.0082	2	2
686.182514	0.3811	3	3
686.297968	0.3602	4	4
686.441842	0.2609	5	5
686.617092	0.0126	6	6
686.823384	0.0818	7	7
687.061782	0.3736	8	8
687.334192	0.0497	9	9
687.640891	0.0263	10	10
687.983605	0.3991	11	11
688.362568	0.1217	12	12
688.779508	0.2084	13	13
689.235433	0.6060	14	14
689.732119	0.1456	15	15
690.268984	0.0201	16	16
690.846529	0.0329	17	17
691.463403*	1.4700	18	18
692.123687	0.2367	19	19
692.821271	0.0736	20	20
693.557140	0.0168	21	21
694.328549	0.3168	22	22
695.134130	0.0537	23	23
695.970208	0.0492	24	24
696.833461	0.4324	25	25
697.721570	0.0312	26	26
698.629897	0.2170	27	27
699.554431	0.1113	28	28
700.491512	0.1950	29	29
701.437493	0.6389	30	30
702.391302*	1.2131	31	31
703.344246	0.1210	32	32
704.298548	0.4251	33	33
705.249082	0.1503	34	34
706.194068	0.7471	35	35
707.129608*	4.6370	36	36
708.064664*	1.4612	37	37
708.989288	0.4684	38	38
709.906819*	2.0306	39	39
710.807630*	3.5348	40	40
717.801017*	1.6976	48	48
718.648986*	0.0273	49	49

THE RMS DEV = 0.000296 FOR 33 LINES

Table 87

05(1F)0-04(2F)0 DCNECS

observed	10^3(o-c)	J′	J″
603.746078	0.4269	26	27
606.012745	0.1746	25	26
608.278154	0.5016	24	25
610.547279	0.3994	23	24
612.823347*	3.2158	22	23
615.101273	0.1003	21	22
617.392722	0.1146	20	21
619.696544	0.3152	19	20
622.016241	0.0805	18	19
624.352967	0.4189	17	18
626.708500	0.6348	16	17
629.084670	0.9027	15	16
633.903082	0.0141	13	14
636.348645	0.2845	12	13
638.820941	0.6141	11	12
641.317772	0.3660	10	11
643.843976	0.8551	9	10
646.396311	0.3881	8	9
651.587507	0.4259	6	7
654.226943	0.6800	5	6
656.892772*	2.1576	4	5
659.593754	0.4527	3	4
662.321234	0.2959	2	3
679.312823*	5.7263	3	2
682.250314*	4.5250	4	3
685.213804*	6.1863	5	4
688.208081*	5.5146	6	5
726.087808	0.5109	18	17
729.364863*	5.4304	19	18
732.660909*	3.7831	20	19
735.968018	0.0622	21	20
739.278188	0.3319	22	21
742.591210	0.0305	23	22
745.905486	0.1864	24	23
749.216912	0.0633	25	24
755.820172	0.4325	27	26
759.106199	0.0784	28	27
762.377055	0.0904	29	28
765.630387	0.0098	30	29
768.859106*	4.3816	31	30
772.073674	0.5349	32	31
775.260908	0.1668	33	32
778.421645	0.0445	34	33
781.556357	0.2575	35	34
784.663682	0.2324	36	35
790.796725	0.1572	38	37

Table 87 continued

05(1F)0-04(2F)0 DCNECS

observed	10^3(o-c)	J′	J″
793.823618	0.1641	39	38
796.825324	0.1786	40	39
802.753900*	1.5502	42	41

THE RMS DEV = 0.000382 FOR 38 LINES

Table 88

05(1F)0-04(2F)0 HCNETS

observed	10^3(o-c)	J′	J″
568.084028	0.9333	41	42
570.595567	0.3405	40	41
573.087115	0.2560	39	40
575.560813	0.4970	38	39
578.012775	0.3948	37	38
580.443811*	1.4777	36	37
582.856730	0.3951	35	36
585.245795	0.5336	34	35
587.615086	0.6046	33	34
589.964593	0.6747	32	33
592.295840	0.4989	31	32
594.610277	0.3241	30	31
596.909865	0.2681	29	30
599.196892	0.4501	28	29
601.474757	0.1395	27	28
603.745232	0.4190	26	27
606.012747	0.1766	25	26
622.016242	0.0815	18	19
624.352499	0.0490	17	18
626.707913	0.0478	16	17
646.396280	0.3571	8	9
739.277819	0.0370	22	21
742.590832	0.4085	23	22
745.905146	0.1535	24	23
778.421469	0.2205	34	33
781.555964	0.1354	35	34
784.663357	0.0925	36	35
787.743707	0.0805	37	36
793.823748	0.0341	39	38
796.825038	0.1073	40	39
799.803337*	1.3521	41	40
802.755519	0.0687	42	41
805.687276	0.5011	43	42
808.597990	0.7585	44	43
811.488386	0.2917	45	44
814.360925	0.3156	46	45
820.054970	0.3415	48	47
822.879792	0.1136	49	48
825.689082	0.9577	50	49
828.489185*	1.9090	51	50

THE RMS DEV = 0.000405 FOR 37 LINES

Table 89

05(1E)0-04(2E)0 HCNETS

observed	10^3(o-c)	J′	J″
592.554679	0.5814	24	25
599.745259	0.2129	22	23
603.260313	0.2072	21	22
610.134497	0.3889	19	20
616.808215	0.7785	17	18
620.071445	0.4684	16	17
623.290708	0.5129	15	16
626.467639	0.0687	14	15
629.604004	0.0822	13	14
632.702845	0.2958	12	13
635.766772	0.4226	11	12
638.797938	0.1527	10	11
641.800074	0.4162	9	10
644.776362	0.2032	8	9
647.726708	0.8460	7	8
650.656357	0.5860	6	7
653.566151	0.2204	5	6
656.457692	0.0512	4	5
659.333649*	1.3565	3	4
662.192985*	1.3883	2	3
665.036186	0.3591	1	2
681.826096*	1.5651	4	3
684.570772*	2.1217	5	4
687.304132	0.4826	6	5
690.016035*	2.1147	7	6
692.709519*	2.1728	8	7
695.381811*	1.3724	9	8
700.650484	0.1591	11	10
703.240903	0.5310	12	11
708.322144	0.9595	14	13
710.807630	0.5011	15	14
713.252472	0.4181	16	15
715.649071*	2.9707	17	16
718.002927*	2.4915	18	17
720.306534*	3.1877	19	18
722.560295*	2.4609	20	19
726.907823	0.0144	22	21
734.920947*	1.8428	26	25
736.785488*	2.0920	27	26
738.586502	0.6291	28	27
740.336584*	1.9346	29	28
746.782862	0.0605	33	32

THE RMS DEV = 0.000452 FOR 27 LINES

Table 90

05(3)0-04(2)0 DCNECS

observed	10^3(o-c)	J′	J″
701.513211	0.2160	3	3

THE RMS DEV = 0.000216 FOR 1 LINES

Table 91

05(3E)0-04(2F)0 DCNECS

observed	10^3(o-c)	J′	J″
701.562333	0.2405	5	5
701.596546	0.4335	6	6
701.958867	0.0671	12	12
702.052534	0.2185	13	13
702.273269	0.6197	15	15
702.547312	0.2041	17	17
702.704984	0.0588	18	18
702.877932	0.2823	19	19
703.067070	0.2877	20	20
703.496561	0.2263	22	22
703.737751	0.2989	23	23
703.997381	0.2830	24	24
704.275845	0.0587	25	25
705.588723	0.3881	29	29
706.368869	0.0930	31	31
706.789912	0.0705	32	32
707.231985	0.2600	33	33
707.695271	0.9359	34	34
708.679858*	1.1618	36	36
709.206023*	1.4569	37	37
710.308681*	1.5679	39	39
711.491745*	0.8400	41	41

THE RMS DEV = 0.000351 FOR 18 LINES

Table 92

05(3F)0-04(2E)0 DCNECS

observed	10^3(o-c)	J′	J″
701.554643	0.1673	5	5
701.607401	0.0439	7	7
701.716238	0.3653	11	11
701.727590	0.1383	18	18
701.625135	0.1592	21	21
701.494980	0.4530	24	24
701.472354	0.0836	30	30
701.946390	0.1757	34	34
702.694443	0.5003	37	37
703.027443	0.3706	38	38
703.824015	0.0027	40	40
705.943093*	1.9256	44	44
706.583798	0.0798	45	45

THE RMS DEV = 0.000265 FOR 11 LINES

Table 93

05(3E)0-04(2E)0 DCNECS

observed	10^3(o-c)	J′	J″
593.858387	0.2655	36	37
596.933723	0.4199	35	36
603.079125	0.3934	33	34
606.145711	0.4056	32	33
609.209316*	2.4289	31	32
612.261137	0.5859	30	31
618.340716	0.9203	28	29
621.366982	0.2775	27	28
624.380222	0.2433	26	27
627.380384	0.0575	25	26
630.367311	0.1382	24	25
633.339878*	0.5031	23	24
636.296568	0.1663	22	23
642.163258	0.0216	20	21
645.071872	0.9835	19	20
647.966047	0.7008	18	19
650.843875*	1.5733	17	18
653.710220	0.5154	16	17
656.560792	0.2880	15	16
659.397999	1.0458	14	15
662.225108*	1.5905	13	14
665.045889	0.9251	12	13
667.855186	0.2323	11	12
670.660115	0.4449	10	11
673.459708	0.3960	9	10
676.256372	0.4897	8	9
679.050106	0.7255	7	8
681.845331	0.1668	6	7
684.641681	0.5938	5	6
709.968332	0.6916	3	2
715.647845	0.2355	5	4
718.491250*	1.9194	6	5
727.041843	0.1620	9	8
729.891578	0.3351	10	9
732.739640	0.0722	11	10
735.583856	0.0073	12	11
738.422475	0.1916	13	12
741.254345	0.0956	14	13
744.077375	0.0391	15	14
746.889576	0.2689	16	15
749.690346	0.2924	17	16
752.476678	0.2055	18	17
755.247394	0.2973	19	18
758.002390	0.1070	20	19
760.739391	0.5113	21	20
763.460201	1.0368	22	21

Table 93 continued

05(3E)0-04(2E)0 DCNECS

observed	10^3(o-c)	J′	J″
768.841581	0.0550	24	23
771.504428	0.0750	25	24
774.148311	0.1409	26	25
781.972586	0.1170	29	28
784.548462*	1.6051	30	29
787.105374	0.0458	31	30
789.649234	0.2420	32	31
792.179206	0.4287	33	32
794.696177	0.5162	34	33
797.202110*	1.4454	35	34
799.694651	0.2069	36	35
802.179292	0.0676	37	36
804.653811*	1.5319	38	37
807.124642	0.6014	39	38
809.587181	0.4330	40	39
812.044673	0.1537	41	40
814.500176	0.4727	42	41
819.403910*	1.9390	44	43
821.859361	0.8713	45	44
824.315623*	1.9826	46	45

THE RMS DEV = 0.000459 FOR 55 LINES

Table 94

05(3F)0-04(2F)0 DCNECS

observed	10^3(o-c)	J′	J″
616.697088*	1.8820	32	33
620.736111	0.3928	30	31
627.258992*	1.2006	27	28
634.266371	0.4953	24	25
636.695090*	1.6401	23	24
639.161369*	1.6119	22	23
641.662673	0.2083	21	22
644.197953	0.4533	20	21
646.766087*	1.4894	19	20
649.358284	0.0327	18	19
651.976481	0.3038	17	18
654.617671	0.1498	16	17
657.278870	0.3133	15	16
659.958796	0.0941	14	15
665.366464	0.1438	12	13
670.827177	0.5708	10	11
721.358040	0.0195	7	6
724.222345	0.8645	8	7
727.091933	0.3992	9	8
729.972036	0.6915	10	9
732.859228	0.1401	11	10
735.757301	0.0831	12	11
738.666333	0.1815	13	12
741.588051	0.0184	14	13
744.523476	0.1013	15	14
747.474071	0.0804	16	15
750.442924	0.7651	17	16
753.430086	0.6981	18	17
756.437990	0.0418	19	18
759.470796	0.3049	20	19
765.617728	0.2460	22	21
768.737713	0.0978	23	22
775.088012	0.1566	25	24
778.324159	0.0378	26	25
781.605583	0.3177	27	26
784.936286	0.0095	28	27
788.319459	0.9621	29	28
791.755155	0.3588	30	29
795.249650	0.3251	31	30
798.803548	0.5991	32	31
802.420064	0.2119	33	32
806.098179	0.2418	34	33
809.840220	0.4468	35	34
813.647601	0.7207	36	35
825.444960	0.2070	39	38

THE RMS DEV = 0.000401 FOR 40 LINES

Table 95

05(3E)0-04(2E)0 HCNETS

observed	10^3(o-c)	J′	J″
600.008482	0.0734	34	35
603.079640	0.1215	33	34
606.146619	0.5023	32	33
609.208068*	1.1809	31	32
612.260913	0.3619	30	31
615.303316*	2.5516	29	30
618.341483	0.1533	28	29
621.367000	0.2955	27	28
624.379979	0.0003	26	27
627.380593	0.1514	25	26
630.367231	0.0582	24	25
633.339611	0.2361	23	24
636.296631	0.2293	22	23
639.238185	0.3968	21	22
642.163093	0.1866	20	21
645.070785*	2.0705	19	20
647.966668	0.0798	18	19
650.844361	1.0873	17	18
653.709796	0.0914	16	17
732.739783	0.0707	11	10
735.583771	0.0776	12	11
738.422621	0.0456	13	12
760.739772	0.1303	21	20
763.459827	0.6628	22	21
766.159137	0.6517	23	22
768.841579	0.0530	24	23
771.504252	0.1009	25	24
774.148481	0.0290	26	25
779.382698	0.6423	28	27
781.972608	0.0950	29	28
784.548355*	1.4981	30	29
787.105701	0.3728	31	30
789.649431	0.4390	32	31
792.179372	0.5947	33	32
794.695780	0.1192	34	33
797.201268	0.6034	35	34
799.694756	0.1019	36	35
802.179695	0.3353	37	36
804.655234	0.1089	38	37
807.124615	0.5744	39	38
809.586879	0.1310	40	39
812.044580	0.2467	41	40
814.498853	0.8502	42	41
821.858672*	1.5603	45	44

THE RMS DEV = 0.000382 FOR 38 LINES

Table 96

05(3F)0-04(2F)0 HCNETS

observed	10^3(o-c)	J′	J″
616.694952	0.2539	32	33
620.735835	0.1168	30	31
622.850295*	1.1895	29	30
625.027212	0.1290	28	29
627.259648	0.5446	27	28
629.547423*	0.7057	26	27
631.883031	0.4194	25	26
634.266861	0.0053	24	25
636.693156	0.2938	23	24
639.159886	0.1289	22	23
641.662267	0.1976	21	22
644.197291	1.1153	20	21
775.088154	0.2986	25	24
778.325076	0.8791	26	25
781.605742	0.1587	27	26
798.803995	0.1521	32	31
802.419595	0.2570	33	32
806.097974	0.4468	34	33
809.840109	0.5578	35	34
821.449849	0.0019	38	37
825.444693	0.0599	39	38
829.500335	0.3202	40	39

THE RMS DEV = 0.000421 FOR 20 LINES

Table 97

05(3E)0-04(2F)0 HCNETS

observed	10^3(o-c)	J′	J″
701.513287	0.7209	3	3
701.562418	0.1555	5	5
701.596262	0.1495	6	6
701.637860*	1.4609	7	7
701.683103	0.8438	8	8
701.737595*	1.7325	9	9
701.803034	0.1315	10	10
701.872780*	3.3511	11	11
701.959034	0.0998	12	12
702.052392	0.0765	13	13
702.155957	1.0831	14	14
702.273623	0.2657	15	15
702.402792	0.8569	16	16
702.547136	0.0281	17	17
702.704944	0.0988	18	18
702.877982	0.2323	19	19
703.065635*	1.7227	20	20
703.273483	0.3066	21	21
703.496061	0.2736	22	22
703.737650	0.1979	23	23
703.997260	0.1620	24	24
704.275806	0.0197	25	25
704.573331	0.6410	26	26
704.891339	0.7089	27	27
705.229292	1.0490	28	28
705.589675	0.5638	29	29
705.968571	0.0218	30	30
706.368809	0.0330	31	31
706.789822	0.0194	32	32
707.231978	0.2530	33	33
707.695063	0.7279	34	34
708.179629*	2.1188	35	35
708.680082	0.9378	36	36
709.206052*	1.4859	37	37
709.753388*	5.6032	38	38
710.309262	0.9869	39	39
711.490487	0.4179	41	41
712.738667*	3.3023	43	43
713.393237*	0.9753	44	44

THE RMS DEV = 0.000534 FOR 30 LINES

Table 98

05(3F)0-04(2E)0 HCNETS

observed	10^3(o-c)	J′	J″
701.513287	0.4407	3	3
701.554982	0.5063	5	5
701.581539*	1.5731	6	6
701.607311	0.1339	7	7
701.637860*	1.9470	8	8
701.664760	0.4924	9	9
701.690204*	1.1248	10	10
701.716053	0.1803	11	11
701.737595	0.9236	12	12
701.749453*	3.0912	13	13
701.762555	0.1393	14	14
701.727793	0.0646	18	18
701.699305	0.4318	19	19
701.625129	0.1652	21	21
701.541601*	3.7231	23	23
701.494787	0.6460	24	24
701.456612*	1.3182	25	25
701.429563	0.7108	26	26
701.411474	0.4333	27	27

THE RMS DEV = 0.000476 FOR 13 LINES

Table 99

05(3E)0-04(4E)0 HCNETS

observed	10^3(o-c)	J′	J″
585.919359	0.0091	25	26
588.464353	1.0386	24	25
593.575254*	1.1511	22	23
596.148099	0.9627	21	22
598.727403	0.7733	20	21
601.319456	0.5648	19	20
603.923393	0.3334	18	19
606.536682	0.9033	17	18
614.451951	0.2105	14	15
617.112718	0.7920	13	14
619.787303	0.2157	12	13
622.470372*	2.0002	11	12
625.173678*	4.4460	10	11
627.878309	0.8005	9	10
630.597540	0.5127	8	9
633.327938	0.3332	7	8
638.821045	0.1519	5	6
641.584134	0.2759	4	5
644.357235	0.3538	3	4
701.946239*	3.6984	16	15
704.925887*	5.4985	17	16
720.031845*	7.7841	22	21
723.069032	0.1048	23	22
726.122383	0.8535	24	23
732.242582*	2.0115	26	25
735.313963	0.8535	27	26
738.383065*	1.5563	28	27
741.456833	0.8777	29	28
744.523512*	7.3035	30	29
747.605240*	3.0130	31	30

THE RMS DEV = 0.000634 FOR 20 LINES

Table 100

05(3F)0-04(4F)0 HCNETS

observed	10^3(o-c)	J′	J″
579.507797*	7.3736	28	29
581.808841	0.3935	27	28
586.528580*	8.4011	25	26
588.950866	0.7050	24	25
591.396643	0.3631	23	24
593.871124	0.0233	22	23
596.372182	0.4270	21	22
598.897053	0.0641	20	21
601.448395*	3.4315	19	20
604.012952*	1.0412	18	19
606.602813	0.2614	17	18
609.208068*	1.2005	16	17
611.833182	0.2558	15	16
614.474996*	2.5467	14	15
617.126411	0.4843	13	14
619.794998	0.4446	12	13
625.173678*	1.5892	10	11
627.878309	0.7355	9	10
630.597540	0.2542	8	9
633.327938	0.0148	7	8
638.821045	0.1982	5	6
641.584134	0.2643	4	5
644.357235	0.3521	3	4
684.230388*	5.5152	10	9
687.161445*	1.4476	11	10
690.103074*	1.3489	12	11
693.060304*	7.3689	13	12
696.017885	0.7299	14	13
698.996016	0.8897	15	14
701.984321*	3.3895	16	15
704.990784*	5.1176	17	16
711.058706*	5.0925	19	18
714.120200*	6.0331	20	19
720.313890*	2.1744	22	21
723.447290	0.1889	23	22
726.605006	0.1520	24	23
733.002024*	6.8775	26	25
736.257632*	1.7994	27	26
739.546396*	1.3723	28	27
742.862800*	4.7386	29	28
746.223048*	5.5481	30	29

THE RMS DEV = 0.000434 FOR 20 LINES

Table 101

05(5E)0-04(4F)0 DCNECS

observed	10^3(o-c)	J′	J″
718.303315	0.0009	27	27
718.395256	0.0045	28	28
718.589887	0.1914	30	30
718.692395	0.0376	31	31
718.799297	0.2409	32	32
719.024296	0.4571	34	34
719.144329	0.0278	35	35
719.269174	0.4863	36	36
719.398257	0.0208	37	37
719.533225	0.0813	38	38
719.673765	0.5296	39	39
719.821262	0.3717	40	40
720.866426*	1.0026	46	46
721.074528	0.5377	47	47
721.291419	0.0221	48	48

THE RMS DEV = 0.000300 FOR 13 LINES

Table 102

05(5F)0-04(4E)0 DCNECS

observed	10^3(o-c)	J′	J″
718.201540	0.0598	26	26
718.286183	0.5724	27	27
718.371767	0.0624	28	28
718.459732	0.0615	29	29
718.549266	0.0000	30	30
718.640238	0.0229	31	31
718.732100	0.1042	32	32
718.824799	0.0822	33	33
719.010904	0.2224	35	35
719.102530	0.3610	36	36
719.193895	0.0685	37	37
719.283403	0.0566	38	38
719.370531	0.0717	39	39
719.454651	0.0546	40	40
719.612453	0.2244	42	42
719.684384	0.0124	43	43
719.752234	0.6949	44	44
719.868579	0.9904	46	46
719.920186	0.1320	47	47
719.965254	0.6073	48	48
720.007523	0.7214	49	49
720.045110	1.0165	50	50

THE RMS DEV = 0.000427 FOR 22 LINES

Table 103

05(5E)0-04(4E)0 DCNECS

observed	10^3(o-c)	J′	J″
642.369346	0.4549	26	27
639.650655*	3.5778	27	28
636.940753	0.7197	28	29
634.231531	0.2747	29	30
631.520111*	3.1583	30	31
628.816827	0.3139	31	32
788.350324	0.9425	25	24
791.231814	0.0360	26	25
794.115500	0.1301	27	26
797.000207	0.2920	28	27
799.886510	0.3094	29	28
802.772890	0.4503	30	29
805.658983	0.1066	31	30
808.545181	0.0615	32	31
811.430803	0.0837	33	32
814.315118	0.0427	34	33
817.197471	0.3847	35	34
820.078855	0.7195	36	35
822.955349	0.1054	37	36
825.828128	0.2020	38	37
828.696330	0.1157	39	38
831.557261*	1.2785	40	39
834.413692	0.2342	41	40
837.259530	0.4166	42	41
840.094330*	2.3298	43	42

THE RMS DEV = 0.000389 FOR 21 LINES

Table 104

05(5F)0-04(4F)0 DCNECS

observed	10^3(o-c)	J′	J″
645.102894	0.1287	25	26
642.389146	0.1396	26	27
639.679793	0.5790	27	28
636.975855	0.3322	28	29
634.277671	0.7446	29	30
631.582966	0.1436	30	31
628.894172	0.0203	31	32
623.532853*	1.6206	33	34
788.356968	0.2278	25	24
791.242956	0.2333	26	25
794.130488	0.0810	27	26
797.021028	0.2404	28	27
799.913712	0.2537	29	28
802.809327	0.6340	30	29
805.706405	0.2362	31	30
808.607225	0.2709	32	31
811.511470	0.0302	33	32
814.418986	0.0310	34	33
817.329954	0.2720	35	34
820.245865	0.1110	36	35
823.165570	0.4925	37	36
826.092075	0.3058	38	37
829.024047	0.4518	39	38
831.963264	0.8865	40	39
834.908942	0.1377	41	40
837.861970*	2.8346	42	41

THE RMS DEV = 0.000368 FOR 23 LINES

Table 105

05(5)0-04(4)0 DCNECS

observed	10^3(o-c)	J′	J″
655.997431	0.6712	21	22
658.733490	0.1043	20	21
661.472374	0.1669	19	20
664.215704	0.1361	18	19
666.962592	0.1294	17	18
669.713743	0.5240	16	17
672.467719	0.1090	15	16
675.226168	0.1104	14	15
677.988461	0.0953	13	14
680.756954*	2.3080	12	13
683.525081	0.5518	11	12
686.297969	0.2167	10	11
689.075774	0.1803	9	10
691.857319	0.5900	8	9
731.166216	0.1746	5	4
733.999394	0.0076	6	5
736.835424	0.0735	7	6
739.674592	0.0811	8	7
742.515774*	1.0866	9	8
745.361900	0.1060	10	9
748.209961	0.0933	11	10
751.061031	0.0821	12	11
753.914297	0.3344	13	12
756.771069	0.0259	14	13
759.630090	0.0329	15	14
762.491753	0.0559	16	15
765.356057	0.0192	17	16
768.222742	0.0023	18	17
771.091755	0.1073	19	18
773.963226	0.0980	20	19
776.837104	0.0443	21	20
779.712892	0.1060	22	21
717.121064	0.1059	6	6
717.144918	0.3020	7	7
717.201992	0.0253	9	9
717.235630	0.0031	10	10
717.312818	0.0529	12	12
717.356212	0.1944	13	13
717.403189	0.0039	14	14
717.453279	0.0706	15	15
717.506272	0.1566	16	16
717.562875	0.0469	17	17
717.622250	0.1288	18	18
717.685079	0.0276	19	19
717.751333	0.5193	20	20
717.819339	0.2926	21	21
717.891166	0.3027	22	22

THE RMS DEV = 0.000232 FOR 45 LINES

Table 106

05(5)0-04(4)0 HCNETS

observed	10^3(o-c)	J′	J″
717.099494*	1.1658	5	5
717.120669	0.2890	6	6
717.144677	0.0610	7	7
717.171210	0.4129	8	8
717.201877	0.0896	9	9
717.235718	0.0848	10	10
717.273254	0.6470	11	11
717.312625	0.2459	12	12
717.356194	0.2124	13	13
717.401497*	1.6959	14	14
717.453249	0.0406	15	15
717.506330	0.0986	16	16
717.562779	0.0490	17	17
717.622212	0.1668	18	18
717.685556	0.5046	19	19
717.751368	0.5543	20	20
717.818243*	1.3886	21	21
717.891307	0.1617	22	22
717.965328	0.9576	23	23
718.041813*	2.2274	24	24
718.122188*	2.4999	25	25

THE RMS DEV = 0.000383 FOR 16 LINES

Table 107

05(5F)0-04(4E)0 HCNETS

observed	10^3(o-c)	J′	J″
718.201823	0.2231	26	26
718.285684	0.0734	27	27
718.371762	0.0574	28	28
718.459567	0.1034	29	29
718.550699*	1.4329	30	30
718.640299	0.0839	31	31
718.732155	0.0492	32	32
718.824747	0.1342	33	33
718.916384*	1.4683	34	34
719.012442*	1.7604	35	35
719.102683	0.2080	36	36
719.193855	0.1085	37	37
719.283447	0.1006	38	38
719.370658	0.1987	39	39
719.454496	0.2096	40	40
719.532644*	2.8438	41	41
719.611883	0.3455	42	42
719.684577	0.1805	43	43
719.750941	0.5980	44	44
719.809666*	3.6554	45	45
719.870368	0.7985	46	46
719.921413	1.0949	47	47
719.964940	0.9213	48	48
720.007561	0.7594	49	49
720.045215	1.1215	50	50
720.080082	1.0015	51	51
720.112802	0.7140	52	52
720.146250*	3.3190	53	53
720.236254	0.8956	55	55
720.298530*	3.7129	56	56
720.457922*	3.0112	58	58
720.700675*	2.7132	60	60

THE RMS DEV = 0.000574 FOR 22 LINES

Table 108

05(5E)0-04(4F)0 HCNETS

observed	10^3(o-c)	J′	J″
718.048048	0.5046	24	24
718.130742*	1.2220	25	25
718.212751*	2.0083	26	26
718.303314	0.0019	27	27
718.395159	0.1015	28	28
718.491696	1.0127	29	29
718.589692	0.0035	30	30
718.691958	0.4746	31	31
718.800722*	1.6659	32	32
718.911157*	1.4010	33	33
719.024577	0.1761	34	34
719.147287*	2.9858	35	35
719.269162	0.4743	36	36
719.398169	0.0671	37	37
719.532644	0.6623	38	38
719.673961	0.3336	39	39
719.821332	0.3017	40	40
719.975634	0.1575	41	41
720.306534	0.0663	43	43
720.484943	0.5986	44	44
720.866293*	1.1356	46	46
721.074687	0.6967	47	47
721.290700*	0.6968	48	48
721.758593*	2.6600	50	50
722.012065*	2.8746	51	51
722.275432*	6.4997	52	52
722.560295*	2.5064	53	53
722.853605*	4.4858	54	54
723.172775*	4.4679	55	55
723.838032*	2.6889	57	57
724.190175*	2.7853	58	58
724.963252*	5.2369	60	60

THE RMS DEV = 0.000454 FOR 16 LINES

Table 109

04(4F)0-03(3F)0 DCNECS

observed	10^3(o-c)	J′	J″
644.846193	0.2825	24	25
650.294926	0.2584	22	23
653.021228	0.4057	21	22
655.748996	0.1660	20	21
658.478803	0.3163	19	20
661.212011	0.0531	18	19
663.949822*	1.8346	17	18
666.686953	0.2118	16	17
762.208241	0.0311	17	16
765.080654	0.1390	18	17
767.955108	0.2784	19	18
770.830921	0.0216	20	19
773.708304	0.0596	21	20
776.586864	0.0507	22	21
779.465659	0.1270	23	22
782.345710*	0.9475	24	23
785.223146	0.0162	25	24
788.100319	0.0219	26	25
790.975296	0.2922	27	26
796.717114	0.0005	29	28
799.581707	0.0610	30	29
802.440728	0.0311	31	30
805.293497	0.0528	32	31
808.138760	0.1061	33	32
810.975286	0.0327	34	33
813.802658	0.2932	35	34
816.618834	0.1018	36	35
819.423475	0.0766	37	36
822.215117	0.2832	38	37
824.993890	0.0331	39	38
827.757491	0.4995	40	39
830.507151	0.0051	41	40
833.240464	0.3397	42	41
835.958344	0.2476	43	42
838.659379	0.9095	44	43

THE RMS DEV = 0.000255 FOR 32 LINES

Table 110

04(4E)0-03(3E)0 DCNECS

observed	10^3(o-c)	J′	J″
645.000020	0.0508	24	25
647.690514	0.0119	23	24
650.388070	0.1056	22	23
653.092610	0.1206	21	22
655.803166	0.0729	20	21
658.519529	0.1329	19	20
661.236912*	5.0040	18	19
663.967504*	2.1113	17	18
666.702019	0.5366	16	17
762.219122	0.1804	17	16
765.096897	0.5410	18	17
767.976739	0.3871	19	18
770.861524	0.1997	20	19
773.750416	0.1215	21	20
776.643022	0.0024	22	21
779.537904*	2.2411	23	22
782.441888	0.0500	24	23
785.348671	0.0700	25	24
788.260973	0.0195	26	25
791.179030	0.0126	27	26
794.103547	0.0033	28	27
797.034839	0.2599	29	28
799.974265	0.1334	30	29
802.922428	0.1748	31	30
805.879013	0.5553	32	31
808.847421	0.0634	33	32
811.826422	0.3259	34	33
814.819051	0.0641	35	34
817.825255	0.1908	36	35
820.841844*	5.7809	37	36
823.887230	0.0765	38	37
826.946192	0.4025	39	38
830.025687	0.2715	40	39
833.127572	0.4588	41	40
836.257314*	1.5750	42	41

THE RMS DEV = 0.000252 FOR 30 LINES

Table 111

04(4E)0-03(3F)0 DCNECS

observed	10^3(o-c)	J′	J″
714.415660	0.2180	16	16
714.481392	0.6378	17	17
714.548928	0.0294	18	18
714.620885*	1.0708	19	19
714.692868	0.1868	20	20
714.845466	0.0210	22	22
714.924745	0.8576	23	23
715.083281	0.0307	25	25
715.163294	0.0199	26	26
715.242862	0.0265	27	27
715.321620	0.0226	28	28
715.398939	0.0371	29	29
715.474243	0.0724	30	30
715.547979	0.5982	31	31
715.617817	0.1264	32	32
715.684909	0.0022	33	33
715.748496	0.3141	34	34
715.809833	0.5486	35	35
715.866383	0.0079	36	36
715.920449	0.0724	37	37
715.972161	0.4552	38	38
716.021152	0.0672	39	39
716.069411	0.0686	40	40
716.118219	0.0924	41	41
716.281332	0.5905	44	44
716.349758	0.6394	45	45
716.426423	0.0073	46	46
716.515695	0.5860	47	47
716.618150*	3.0714	48	48
716.743284	0.4322	49	49

THE RMS DEV = 0.000355 FOR 27 LINES

Table 112

04(4F)0-03(3E)0 DCNECS

observed	10^3(o-c)	J′	J″
714.425626	0.0871	16	16
714.495360	0.0258	17	17
714.569278	0.0982	18	18
714.647774	0.0141	19	19
714.731109	0.3618	20	20
714.817687	0.7147	21	21
714.911249	0.3236	22	22
715.111399	0.0021	24	24
715.219818	0.0126	25	25
715.334123	0.0387	26	26
715.451226*	3.2413	27	27
715.581564	0.2528	28	28
715.715224	0.2524	29	29
715.855424	0.4029	30	30
716.004203	0.0737	31	31
716.160671	0.0675	32	32
716.325720	0.0746	33	33
716.499321	0.1213	34	34
716.681293*	1.2900	35	35
716.875584	0.0579	36	36
717.078899	0.1682	37	37
717.517179	0.5646	39	39
718.002854	0.3088	41	41
718.264420	0.1001	42	42
718.538385	0.0924	43	43
719.126019	0.0704	45	45
719.441258	0.7133	46	46
719.769367	0.2933	47	47
720.112908	0.9950	48	48
720.469710	0.4445	49	49

THE RMS DEV = 0.000345 FOR 27 LINES

Table 113

04(4)0-03(3)0 DCNECS

observed	10^3(o-c)	J′	J″
713.909111	1.0622	4	4
713.930821	0.0588	5	5
713.955487	0.0542	6	6
713.984076	0.0892	7	7
714.017060	0.1233	8	8
714.053810	0.0895	9	9
714.139237	0.0353	11	11
714.187706	0.1225	12	12
714.240333	0.0065	13	13
680.439728	0.0227	11	12
685.968135	0.0213	9	10
688.739217	0.3905	8	9
691.514223	0.3365	7	8
694.293074	0.2096	6	7
697.077156	0.1516	5	6
699.865868	0.8367	4	5
725.146484	0.0279	4	3
727.975974	0.0699	5	4
730.809126	0.0644	6	5
733.646228	0.0862	7	6
736.487096	0.1194	8	7
739.331783	0.0476	9	8
742.180028	0.0653	10	9
745.031882	0.0519	11	10
747.887241	0.0385	12	11
750.745739	0.3146	13	12
753.607689	0.4875	14	13

THE RMS DEV = 0.000310 FOR 27 LINES

Table 114

04(4)0-03(3)0 HCNETS

observed	10^3(o-c)	J′	J″
672.182629*	2.7916	14	15
674.928231	0.5694	13	14
677.683059	0.9575	12	13
680.439655	0.0957	11	12
683.209869*	8.1147	10	11
685.968107	0.0066	9	10
688.739403	0.5765	8	9
691.513962	0.0755	7	8
725.146349	0.1629	4	3
727.975929	0.0249	5	4
730.809071	0.1194	6	5
733.646258	0.0562	7	6
736.487149	0.0664	8	7
739.331680	0.1506	9	8
742.179945	0.1483	10	9
745.031773	0.1609	11	10
747.887118	0.1615	12	11
750.745843	0.2106	13	12
753.607870	0.3065	14	13
756.472492*	1.0730	15	14

THE RMS DEV = 0.000332 FOR 16 LINES

Table 115

04(4E)0-03(3E)0 HCNETS

observed	10^3(o-c)	J′	J″
589.526788	0.1275	46	47
591.773983	0.4122	45	46
594.062306	0.1170	44	45
596.387654	0.0407	43	44
598.749545*	1.3119	42	43
601.141492	0.1506	41	42
603.563176*	2.3206	40	41
606.012747*	4.7861	39	40
608.495318	0.2745	38	39
610.997212	0.4178	37	38
613.521995	0.2716	36	37
616.065456	0.6222	35	36
618.628835	0.1934	34	35

Table 115 continued

04(4E)0-03(3E)0 HCNETS

observed	10^3(o-c)	J′	J″
621.209047	0.0122	33	34
623.804235	0.4471	32	33
626.414494	0.1812	31	32
631.673004	0.0788	29	30
634.319860	0.4057	28	29
636.976122	0.0492	27	28
639.642357	0.2038	26	27
642.316936	0.0575	25	26
644.999912	0.0571	24	25
647.690428	0.0979	23	24
650.388117	0.0586	22	23
655.803073	0.0200	20	21
658.519772	0.1100	19	20
661.236808*	5.1080	18	19
663.967453*	2.1623	17	18
666.702254	0.3016	16	17
669.440539	0.0253	15	16
759.345881	0.0053	16	15
762.218916	0.3864	17	16
765.096929	0.5730	18	17
767.975903*	1.2231	19	18
770.861527	0.1967	20	19
773.750392	0.0975	21	20
776.642988	0.0364	22	21
779.538095*	2.0501	23	22
782.441888	0.0500	24	23
785.348641	0.1000	25	24
788.260966	0.0125	26	25
791.179018	0.0246	27	26
794.103524	0.0263	28	27
797.035036	0.0629	29	28
799.974296	0.1024	30	29
802.922297	0.0438	31	30
805.879494	0.0743	32	31
808.847459	0.1014	33	32
811.826565	0.1829	34	33
814.818900	0.0868	35	34
817.825421	0.0248	36	35
820.849847*	2.2220	37	36
823.887377	0.2235	38	37
826.945573	0.2164	39	38
830.025449	0.0335	40	39
833.128066	0.0351	41	40
836.255759	0.0200	42	41
842.595001	0.2511	44	43

THE RMS DEV = 0.000215 FOR 50 LINES

Table 116

04(4F)0-03(3F)0 HCNETS

observed	10^3(o-c)	J′	J″
583.606616*	1.4231	46	47
589.362481	0.4850	44	45
592.224849	0.1139	43	44
595.076350	0.2963	42	43
597.914470*	1.4860	41	42
603.563176*	1.3681	39	40
606.368646	0.6971	38	39
611.948137	0.1405	36	37
614.723362	0.1660	35	36
617.489703	0.0368	34	35
620.247555	0.1525	33	34
622.998203	0.0892	32	33
625.742419	0.0201	31	32
628.480381	0.5735	30	31
631.214793	0.0954	29	30
633.944997	0.1170	28	29
636.672543	0.0287	27	28
639.397745	0.1850	26	27
642.122016	0.1352	25	26
644.846179	0.2685	24	25
650.294641	0.0265	22	23
653.020916	0.0937	21	22
655.748916	0.0860	20	21
658.478953	0.1663	19	20
661.211984	0.0801	18	19
663.948838	0.8506	17	18
666.687321	0.1561	16	17
669.429734	0.0961	15	16
759.339088	0.7098	16	15
765.080576	0.0610	18	17
767.954843	0.0134	19	18
770.830860	0.0393	20	19
773.708252	0.1116	21	20
776.586875	0.0617	22	21
779.465657	0.1290	23	22
782.345614	0.8515	24	23
785.223002	0.1602	25	24
788.100314	0.0269	26	25
790.975542	0.0462	27	26
799.581457	0.1889	30	29
802.440793	0.0338	31	30
805.293366	0.0781	32	31
808.138723	0.0691	33	32
810.975292	0.0267	34	33
813.802267	0.0977	35	34
816.618861	0.1288	36	35

Table 116 continued

04(4F)0-03(3F)0 HCNETS

observed	10^3(o-c)	J′	J″
819.423597	0.1986	37	36
822.215433	0.0327	38	37
824.993859	0.0021	39	38
827.758334	0.3434	40	39
830.506700	0.4458	41	40
833.240107	0.6967	42	41
835.957519*	1.0726	43	42
838.659658	0.6305	44	43
844.011279*	3.9889	46	45

THE RMS DEV = 0.000310 FOR 50 LINES

Table 117

04(4F)0-03(3E)0 HCNETS

observed	10^3(o-c)	J′	J″
713.907700*	2.4745	4	4
713.930809	0.0415	5	5
713.955312	0.1368	6	6
713.984127	0.0785	7	7
714.016800	0.2252	8	8
714.053824	0.0734	9	9
714.093716	1.0989	10	10
714.139252	0.5235	11	11
714.187657	1.1267	12	12
714.240164*	1.6881	13	13
714.298838	0.1659	14	14
714.361227	0.9525	15	15
714.425329	0.3841	16	16
714.495369	0.0168	17	17
714.569325	0.0512	18	18
714.647718	0.0701	19	19
714.730941	0.1938	20	20
714.817448	0.9537	21	21
714.911144	0.2186	22	22
715.008048	0.4687	23	23
715.111307	0.0941	24	24
715.219755	0.0756	25	25
715.334282	0.1977	26	26
715.453301	1.1663	27	27
715.581826	0.5148	28	28

Table 117 continued

04(4F)0-03(3E)0 HCNETS

observed	10^3(o-c)	J′	J″
715.714944	0.0275	29	29
715.854260*	1.5669	30	30
716.004219	0.0577	31	31
716.160266	0.4725	32	32
716.325706	0.0606	33	33
716.499586	0.1436	34	34
716.681823	0.7600	35	35
716.876018	0.4919	36	36
717.078709	0.0217	37	37
717.292542	0.1115	38	38
717.516976	0.7676	39	39
717.751368*	3.0709	40	40
718.002927	0.2358	41	41
718.264501	0.1811	42	42
718.538488	0.1954	43	43
718.824747	0.6920	44	44
719.126564	0.4745	45	45
719.769526	0.4523	47	47
720.112802	0.8890	48	48
720.470068	0.8025	49	49
720.841172	0.1280	50	50
721.630022	0.1005	52	52
722.047100	0.4219	53	53
722.925806	0.5369	55	55
723.385550*	1.5375	56	56
724.354517	1.0087	58	58
725.384675*	1.5871	60	60
726.468848	0.0989	62	62
727.035518*	2.5485	63	63
727.610916	0.2927	64	64
728.202947	0.3241	65	65

THE RMS DEV = 0.000509 FOR 49 LINES

Table 118

04(4E)0-03(3F)0 HCNETS

observed	10^3(o-c)	J′	J″
713.907700*	2.4718	4	4
713.930809	0.0522	5	5
713.955312	0.1045	6	6
713.984127	0.0020	7	7
714.016800	0.0480	8	8
714.053824	0.2805	9	9
714.093716	0.4422	10	10
714.139252	0.6242	11	11
714.187657	0.7835	12	12
714.240164*	1.3632	13	13
714.353549	0.3196	15	15
714.415581	0.1390	16	16
714.481418	0.6638	17	17
714.620874	1.0598	19	19
714.692790	0.2648	20	20
714.767795	0.5822	21	21
714.845433	0.0119	22	22
714.924770	0.8826	23	23
714.999928*	3.3727	24	24
715.083258	0.0077	25	25
715.162635	0.6390	26	26
715.242951	0.0624	27	27
715.321616	0.0186	28	28
715.398926	0.0241	29	29
715.474292	0.0234	30	30
715.548036	0.6552	31	31
715.617738	0.0474	32	32
715.684754	0.1572	33	33
715.749457	0.6468	34	34
715.809309	0.0246	35	35
715.866147	0.2439	36	36
715.920319	0.0575	37	37
715.971991	0.2852	38	38
716.021000	0.0847	39	39
716.069285	0.1946	40	40
716.118115	0.0115	41	41
716.219743*	2.7197	43	43
716.281932	0.0094	44	44
716.350155	1.0364	45	45
716.426286	0.1296	46	46
716.515440	0.8410	47	47
716.620011*	1.2104	48	48
716.883144*	3.0057	50	50
717.052215*	1.4692	51	51
717.453249*	0.9319	53	53
717.965328*	1.3422	55	55
718.264501*	1.8860	56	56

THE RMS DEV = 0.000449 FOR 37 LINES

Table 119

04(2F)0-03(1E)0 DCNECS

observed	10^3(o-c)	J′	J″
698.562877	0.2683	3	3
698.641138	0.2990	4	4
698.740245	0.2775	5	5
698.858290	0.0953	6	6
698.996318	0.2079	7	7
699.331175	0.2261	9	9
699.527742	0.0868	10	10
699.744031	0.2761	11	11
699.980356	0.0159	12	12
700.235801	0.0708	13	13
700.805099	0.0384	15	15
701.118560	0.1228	16	16
701.452109	0.7628	17	17
701.803157	0.1741	18	18
702.173377	0.0480	19	19
702.969794	0.1333	21	21
703.395493	0.0269	22	22
703.838925	0.0558	23	23
704.299647	0.3563	24	24
704.778287	0.0363	25	25
705.785421	0.4994	27	27
706.311639	0.8829	28	28
706.855461	0.2421	29	29
707.414846	0.8611	30	30
707.987153	0.2899	31	31
708.574107	0.2950	32	32
709.175708*	1.4207	33	33
710.413360	0.2065	35	35
711.050849	0.3706	36	36
711.700030	0.0749	37	37
712.358025*	1.6138	38	38
713.029386	0.1440	39	39
713.708569	0.2264	40	40
714.396043	0.3381	41	41
715.092828	0.0145	42	42
715.798010	0.8956	43	43
717.953209	0.8891	46	46

THE RMS DEV = 0.000385 FOR 35 LINES

Table 120

04(2E)0-03(1F)0 DCNECS

observed	10^3(o-c)	J′	J″
698.420977	0.5978	2	2
698.396442	0.6640	3	3
698.331653	0.1080	5	5
698.291371	0.0153	6	6
698.203433	0.0475	8	8
698.117195	0.0368	10	10
698.079712	0.2514	11	11
698.094124	0.1105	17	17
698.681288	0.0636	22	22
698.884342	0.1054	23	23
699.119123	0.0017	24	24
699.386130	0.0944	25	25
699.685780	0.0262	26	26
700.018858	0.0426	27	27
700.385783	0.1213	28	28
700.786371	0.0443	29	29
701.221068	0.0275	30	30
701.690003	0.1414	31	31
702.192838	0.0772	32	32
702.730304	0.6914	33	33
703.300230	0.0490	34	34
703.898928*	5.1709	35	35
704.543505*	2.6594	36	36
705.909639	0.1763	38	38
706.641761*	1.7616	39	39
707.398132	0.7613	40	40
708.995804	0.2169	42	42

THE RMS DEV = 0.000296 FOR 23 LINES

Table 121
04(2E)0-03(1E)0 DCNECS

observed	10^3(o-c)	J′	J″
627.248189*	2.1218	30	31
630.469244*	2.8672	28	29
632.161497	0.6896	27	28
633.903082	0.2954	26	27
635.699648	0.7720	25	26
637.550515	0.8310	24	25
639.455082	0.4933	23	24
641.416879	0.2348	22	23
643.438941*	6.2505	21	22
645.503194	0.0073	20	21
647.626822	0.5184	19	20
649.810558*	6.6100	18	19
652.030887	0.6661	17	18
654.307192*	1.2083	16	17
656.632906	0.4190	15	16
659.001883	0.2709	14	15
661.413207	0.2252	13	14
663.866618*	1.0974	12	13
666.355314	0.1115	11	12
668.880551	0.1751	10	11
671.439687	0.6057	9	10
674.028039	0.2323	8	9
676.646393	0.1606	7	8
679.290773	0.3088	6	7
681.962172	1.0342	5	6
684.655413	0.4814	4	5
687.371854	0.6366	3	4
704.100020	0.3482	2	1
706.958832	0.3180	3	2
709.837444	0.0380	4	3
712.738708	0.6005	5	4
715.661551	0.0971	6	5
718.613820*	5.0106	7	6
721.581365	0.3125	8	7
724.580821	0.9445	9	8
727.610958	0.0064	10	9
730.671281	0.0432	11	10
733.765057	0.0370	12	11
736.893831	0.4793	13	12
740.061474	0.0147	14	13
743.268901	0.0729	15	14
746.518335	0.1872	16	15
749.812654	0.0267	17	16
753.153741	0.7353	18	17
756.541283	0.0052	19	18
759.978130	0.6538	20	19

Table 121 continued
04(2E)0-03(1E)0 DCNECS

observed	10^3(o-c)	J′	J″
763.466374	0.1839	21	20
767.004184	1.1315	22	21
770.594910	0.5429	23	22
777.930451	0.5225	25	24
785.469462*	2.1128	27	26
789.310952	0.6870	28	27
793.201588	0.3613	29	28
797.138968	0.0213	30	29
805.148537	0.2149	32	31
809.218138	0.6012	33	32
813.326424	0.0697	34	33
817.473606	0.0497	35	34

THE RMS DEV = 0.000473 FOR 50 LINES

Table 122

04(2F)0-03(1F)0 DCNECS

observed	10^3(o-c)	J′	J″
567.530618*	6.1482	44	45
570.348743	0.8237	43	44
573.170046*	1.9839	42	43
576.009646	0.3943	41	42
578.858440*	1.1500	40	41
581.722836	0.0603	39	40
584.598846	0.0196	38	39
587.488627*	1.5863	37	38
590.386556	0.2652	36	37
593.298439	0.9606	35	36
596.218301	0.1285	34	35
599.148258	0.2836	33	34
602.085932	0.0442	32	33
605.030158	0.7138	31	32
607.982794	0.9305	30	31
610.937587	0.2099	29	30
613.897390	0.2319	28	29
616.860174	0.1441	27	28
619.824920	0.0127	26	27
622.790163	0.2984	25	26
625.755798	0.3124	24	25
628.721146	0.1020	23	24
631.684741	0.2265	22	23
634.645721	0.1151	21	22
637.604162	0.2218	20	21
640.559544	0.0464	19	20
643.506503*	4.4406	18	19
646.457674	0.3077	17	18
649.399612	0.6781	16	17
652.337625	0.1279	15	16
655.269205	0.0639	14	15
658.195108	0.1990	13	14
661.116173	0.8299	12	13
664.029024	0.1118	11	12
666.936383	0.0849	10	11
669.837620	0.4774	9	10
672.731404	0.4235	8	9
675.616555*	1.2629	7	8
678.498123	0.6186	6	7
681.371478*	1.5780	5	6
684.229871*	5.0035	4	5
704.072163	0.1916	2	1
706.873901	0.1105	3	2
712.452084	0.1309	5	4
715.228031	0.5709	6	5
717.997283	0.8684	7	6

Table 122 continued

04(2F)0-03(1F)0 DCNECS

observed	10^3(o-c)	J′	J″
720.756281	0.6935	8	7
723.505810	0.2529	9	8
726.247677	0.1156	10	9
728.980675	0.0641	11	10
731.704728	0.1499	12	11
734.420097	0.1029	13	12
737.126442	0.2718	14	13
739.824365	0.0843	15	14
745.193608	0.2195	17	16
747.865688	0.0237	18	17
750.528848	0.2703	19	18
753.184371	0.0068	20	19
755.831393	0.2822	21	20
758.471247	0.0444	22	21
761.103621	0.0600	23	22
763.728828	0.0474	24	23
766.348047	0.3590	25	24
768.960411	0.1043	26	25
771.567884	0.0571	27	26
774.170701	0.0857	28	27
776.769856	0.6024	29	28
779.364852	0.2177	30	29
781.957416	0.1766	31	30
784.548462	0.5501	32	31
787.139849	0.0359	33	32
789.731131	0.1927	34	33
792.323747	0.4116	35	34
794.918142	0.2049	36	35
797.515675	0.0358	37	36
802.723533	0.0739	39	38
805.335322	0.0452	40	39
807.953571	0.7558	41	40
810.576790	0.1764	42	41
813.206496	0.4201	43	42
815.843997	0.1812	44	43
818.486389	0.8657	45	44
821.137465	0.4338	46	45
823.792412	0.3978	47	46
826.453088	1.0486	48	47
829.120669	0.2127	49	48
831.788041*	3.0898	50	49

THE RMS DEV = 0.000394 FOR 77 LINES

Table 123

04(2F)0-03(1F)0 HCNETS

observed	10^3(o-c)	J′	J″
553.660549	0.8996	49	50
556.414443	0.1773	48	49
559.177168	0.4158	47	48
561.951947	0.1113	46	47
564.733151*	5.1312	45	46
567.536910	0.1437	44	45
570.348015	0.0957	43	44
573.171528	0.5019	42	43
576.009071	0.1806	41	42
578.859306	0.2840	40	41
581.722913	0.0166	39	40
584.598631	0.2346	38	39
587.486871	0.1696	37	38
590.386017	0.8042	36	37
593.298328	0.8496	35	36
596.218423	0.2505	34	35
599.147823	0.1513	33	34
602.085730	0.1577	32	33
605.029952	0.9198	31	32
607.982241	0.3775	30	31
610.937755	0.0419	29	30
613.897399	0.2229	28	29
616.860334	0.0158	27	28
619.824752	0.1552	26	27
622.790313	0.1484	25	26
625.755955	0.1554	24	25
628.720671	0.3729	23	24
631.684548	0.0335	22	23
634.645810	0.0261	21	22
637.604214	0.1698	20	21
640.559468	0.1224	19	20
643.510501	0.4426	18	19
646.457910	0.0717	17	18
649.399980	0.3101	16	17
652.337527	0.0299	15	16
655.269165	0.1039	14	15
658.194996	0.3110	13	14
661.116383	1.0399	12	13
664.029041	0.0948	11	12
666.936617	0.1490	10	11
669.837185	0.0424	9	10
672.731496	0.5155	8	9
675.616553*	1.2649	7	8
678.497957	0.4526	6	7
681.371306*	1.4060	5	6
687.092869	0.5633	3	4

Table 123 continued

04(2F)0-03(1F)0 HCNETS

observed	10^3(o-c)	J′	J″
684.230388*	4.4865	4	5
704.072320	0.0346	2	1
706.874121	0.1094	3	2
709.667794	0.4682	4	3
715.228807	0.2050	6	5
717.996987	0.5724	7	6
720.756391	0.8035	8	7
723.505865	0.1979	9	8
726.247586	0.2066	10	9
728.980615	0.1241	11	10
731.704771	0.1069	12	11
734.420028	0.1719	13	12
737.126484	0.2298	14	13
739.824027	0.4223	15	14
742.515920*	2.4597	16	15
745.193684	0.1435	17	16
747.865465	0.1992	18	17
750.528844	0.2743	19	18
753.184199	0.1788	20	19
755.831427	0.2482	21	20
758.471187	0.1044	22	21
761.103468	0.0929	23	22
763.728654	0.2214	24	23
766.347647	0.0409	25	24
768.960218	0.2973	26	25
771.567740	0.2011	27	26
774.170518	0.0972	28	27
776.769867	0.6134	29	28
779.365475	0.8407	30	29
781.957659	0.0663	31	30
784.548355	0.6571	32	31
787.139909	0.0959	33	32
789.731034	0.0957	34	33
794.917879	0.0580	36	35
797.515621	0.0181	37	36
800.117395	0.1171	38	37
826.454266	0.1293	48	47
829.120170	0.2862	49	48
831.787759*	3.3718	50	49
834.462611*	2.8482	51	50
837.141561*	1.1350	52	51
839.820297*	1.7720	53	52

THE RMS DEV = 0.000361 FOR 79 LINES

Table 124

04(2E)0-03(1E)0 HCNETS

observed	10^3(o-c)	J′	J″
625.713627*	1.0343	31	32
627.251277	0.9661	30	31
628.834828	0.8491	29	30
630.471422	0.6892	28	29
632.160420	0.3873	27	28
633.903578	0.7914	26	27
635.698793	0.0829	25	26
637.549955	0.2710	24	25
639.455395	0.1803	23	24
641.416931	0.2868	22	23
643.432733	0.0425	21	22
645.503314	0.1126	20	21
647.627440	0.0995	19	20
649.803903	0.0449	18	19
652.031436	0.1171	17	18
654.308167	0.2333	16	17
656.631786	0.7009	15	16
659.001612	0.0000	14	15
661.413321	0.1112	13	14
663.866644	1.1234	12	13
666.355586	0.1604	11	12
668.880602	0.1241	10	11
671.439289	0.2077	9	10
674.027665	0.6063	8	9
676.646001	0.2313	7	8
679.291130	0.0481	6	7
681.962050	0.9122	5	6
684.655345	0.4134	4	5
687.372973*	1.7556	3	4
690.109606	0.6297	2	3
709.837371	0.1110	4	3
712.738667	0.5595	5	4
715.661250	0.2038	6	5
718.613438*	4.6286	7	6
721.581237	0.4405	8	7
724.581123	0.6425	9	8
727.610916	0.0484	10	9
730.671155	0.1692	11	10
733.764827	0.1929	12	11
736.892573*	1.7373	13	12
740.054738*	6.7507	14	13
740.061393	0.0957	14	13
743.268772	0.0560	15	14
746.518369	0.1532	16	15
749.812758	0.1307	17	16
753.154101	1.0953	18	17

Table 124 continued

04(2E)0-03(1E)0 HCNETS

observed	10^3(o-c)	J′	J″
756.541221	0.0567	19	18
759.979122	0.3381	20	19
763.466246	0.3119	21	20
767.004627	0.6885	22	21
770.595498	0.0450	23	22
774.236037	1.0210	24	23
777.929887	0.0414	25	24
785.469020*	1.6708	27	26
789.310734	0.4690	28	27
793.200392	0.8346	29	28
797.138890	0.0566	30	29
801.116706*	5.2770	31	30
805.149666	0.9140	32	31
809.217069	0.4677	33	32
813.324826*	1.6677	34	33
817.474589	0.9332	35	34
821.658173*	1.2392	36	35

THE RMS DEV = 0.000505 FOR 54 LINES

Table 125

04(2F)0-03(1E)0 HCNETS

observed	10^3(o-c)	J′	J″
698.563102	0.4933	3	3
698.641119	0.3180	4	4
698.740221	0.2535	5	5
698.858102	0.0926	6	6
698.996016	0.0940	7	7
699.154996*	1.2951	8	8
699.330987	0.0381	9	9
699.527804	0.0248	10	10
699.744002	0.3051	11	11
699.980333	0.0070	12	12
700.235829	0.0428	13	13
700.510857	0.0242	14	14
700.805345	0.2075	15	15
701.118616	0.0668	16	16
701.452071	0.7248	17	17
701.803034	0.0511	18	18
702.173416	0.0090	19	19
702.561586	0.8938	20	20
702.969894	0.0333	21	21

Table 125 continued

04(2F)0-03(1E)0 HCNETS

observed	10^3(o-c)	J′	J″
703.395487	0.0329	22	22
703.838840	0.1408	23	23
704.298548*	1.4553	24	24
704.778110	0.1406	25	25
705.785471	0.5494	27	27
706.311602	0.9199	28	28
706.855649	0.0541	29	29
707.413832	0.1528	30	30
707.987491	0.6279	31	31
708.573970	0.1580	32	32
709.177681*	3.3937	33	33
709.787457	0.2722	34	34
710.413300	0.2665	35	35
711.051953	0.7333	36	36
711.700444	0.3390	37	37
712.359117	0.5218	38	38
713.029034	0.2079	39	39
713.709211	0.8684	40	40
714.396401	0.0198	41	41
715.092157	0.6564	42	42
715.797252	0.1376	43	43
716.507966	0.8143	44	44
719.419116	0.8172	48	48
720.160616	1.1875	49	49
720.909373	0.7759	50	50
721.658487*	1.5266	51	51
722.414679	1.1047	52	52

THE RMS DEV = 0.000498 FOR 42 LINES

Table 126

04(2E)0-03(1F)0 HCNETS

observed	10^3(o-c)	J′	J″
698.420213	0.1661	2	2
698.396366	0.7400	3	3
698.331491	0.0539	5	5
698.291755	0.3686	6	6
698.204209	0.8235	8	8
698.117073	0.0851	10	10
698.079026	0.9374	11	11
698.050268	0.4193	12	12
698.020705	0.2189	14	14
698.028106	0.8417	15	15
698.094161	0.0735	17	17
698.159306	0.3352	18	18
698.249042	0.1965	19	19
698.365291	0.3417	20	20
698.508289	0.1729	21	21
698.681237	0.0126	22	22
698.884416	0.0314	23	23
699.119100	0.0212	24	24
699.386051	0.0154	25	25
699.685733	0.0732	26	26
700.018864	0.0366	27	27
700.385697	0.0353	28	28
700.786266	0.0606	29	29
701.220982	0.0584	30	30
701.690204	0.3424	31	31
702.192709	0.0517	32	32
702.730172	0.5594	33	33
703.300042	0.1389	34	34
703.905430*	1.3310	35	35
704.543529*	2.6834	36	36
705.210812	1.0923	37	37
705.909706	0.1093	38	38
706.643518*	3.5186	39	39
707.398058	0.8353	40	40
708.995444	0.5769	42	42
710.685548	0.4238	44	44
713.347838	0.1188	47	47
714.257753	0.8770	48	48
716.097835	0.9725	50	50
717.021830	1.0226	51	51
718.867501	0.1287	53	53
719.782189*	1.8887	54	54
721.601539*	2.1897	56	56
723.385550	0.6922	58	58
724.264974	0.5173	59	59

THE RMS DEV = 0.000498 FOR 40 LINES

Table 127

04(2F)0-03(3E)0 HCNETS

observed	10^3(o-c)	J′	J″
668.025416	0.9851	4	4
668.068080	0.2607	5	5
668.120291	1.0176	6	6
668.178678	0.2158	7	7
668.244993	0.0086	8	8
668.318453	0.0031	9	9
668.396141*	2.1984	10	10
668.575578	0.3737	12	12
668.671606	0.6313	13	13
668.769179*	1.5766	14	14
668.873980	0.1464	15	15
668.980135	0.6790	16	16
669.086599	0.2344	17	17
669.194823	0.3199	18	18
669.303656	0.1257	19	19
669.409223*	1.8899	20	20
669.516842	0.1423	21	21
669.618439*	1.7766	22	22
669.719708	0.1523	23	23
669.814612	0.3454	24	24
669.904677	0.1416	25	25
670.063430	0.2153	27	27
670.129851	0.5020	28	28
670.188132	0.0781	29	29
670.271251	0.0330	31	31
670.294962	0.0420	32	32
670.314047*	8.7079	33	33
670.303504*	1.8563	34	34
670.283696	0.7155	35	35
670.248964	0.4603	36	36
670.205020*	7.6013	37	37
670.042421	0.0030	39	39
669.935398*	1.7219	40	40
669.668893	1.1376	42	42
669.501015*	1.5676	43	43
668.880602	1.1078	46	46
668.627706	0.3114	47	47
668.059019*	1.3505	49	49
667.737256	1.1398	50	50
667.395615	0.5887	51	51
666.642527	0.2396	53	53
665.800326*	3.1464	55	55

THE RMS DEV = 0.000534 FOR 31 LINES

Table 128

04(2E)0-03(3F)0 HCNETS

observed	10^3(o-c)	J′	J″
668.025416*	2.5025	4	4
668.075589	0.3636	5	5
668.135379	0.1473	6	6
668.207628	0.0543	7	7
668.293727	0.1057	8	8
668.396141*	1.4524	9	9
668.511117*	1.2377	10	10
668.648152	0.0376	11	11
668.803736	0.0913	12	12
668.980135	0.7891	13	13
669.181012	0.0965	14	14
669.409223*	3.2980	15	15
669.656780	0.0060	16	16
669.935398	0.5459	17	17
670.240851	0.2435	18	18
670.576022	0.1038	19	19
670.940297	0.0768	20	20
671.333315	0.0410	21	21
671.754615	0.1779	22	22
672.203877	0.0138	23	23
672.680605*	1.3047	24	24
673.179183	0.2089	25	25
673.702270	0.0694	26	26
674.245718	0.2637	27	27
674.806565	0.0400	28	28
675.383144	0.2834	29	29
675.971061	0.1532	30	30
676.569121	0.6459	31	31
677.170648	0.6471	32	32
677.776445	0.2465	33	33
678.380026	0.4182	34	34
678.978059	0.1872	35	35
679.567203	0.0896	36	36
680.144604	0.4503	37	37
680.704087	0.6586	38	38
681.244653	0.7412	39	39
681.762255	0.2302	40	40
682.250292*	2.1975	41	41
682.711547	0.4395	42	42
683.138583	0.8954	43	43
683.524843*	1.6149	44	44
683.874820	0.5208	45	45
684.439792*	2.8573	47	47
684.655345	0.9265	48	48
684.820773	0.3196	49	49
685.001876	0.7109	52	52

THE RMS DEV = 0.000414 FOR 37 LINES

Table 129
04(2E)0-03(3E)0 HCNETS

observed	10^3(o-c)	J′	J″
573.228565	0.0674	38	39
575.221714	0.3070	37	38
577.222297	0.3280	36	37
579.234063	0.6026	35	36
581.259037	0.7890	34	35
583.300116	0.2059	33	34
585.358281	0.0056	32	33
587.435197	0.5724	31	32
589.534390	0.3418	30	31
591.656806	0.2355	29	30
593.804357	0.1049	28	29
595.978233	0.4054	27	28
598.181357	0.2773	26	27
600.413473	0.3378	25	26
602.675985	0.0163	24	25
604.970694	0.1645	23	24
607.296976	0.5476	22	23
609.657034	0.3520	21	22
612.049956	0.3022	20	21
614.474996	0.9776	19	20
616.933988	0.0651	18	19
619.423357	0.3563	17	18
621.943767	0.1206	16	17
624.492853	0.4070	15	16
627.069915	0.3931	14	15
629.673274	0.0810	13	14
632.300437	0.1864	12	13
634.950127	0.1627	11	12
637.620439	0.0964	10	11
640.308993	0.5989	9	10
643.016093	0.3143	8	9
645.737642	0.1088	7	8
648.473751	0.3170	6	7
651.222155	0.0614	5	6
653.984462*	1.6786	4	5
656.753686	0.5252	3	4
659.535747	0.0060	2	3
687.869968	0.0799	7	6
690.762751*	1.2786	8	7
696.597941	0.5307	10	9
699.542908	1.0730	11	10
702.504557	0.2722	12	11
705.488497	0.6775	13	12
717.672050*	1.3503	17	16
723.933684	0.2461	19	18
727.106630*	2.2589	20	19

Table 129 continued
04(2E)0-03(3E)0 HCNETS

observed	10^3(o-c)	J′	J″
733.551492	0.8805	22	21
736.817949*	2.1996	23	22
740.116535*	1.4025	24	23
743.444686	0.1966	25	24
746.800667	0.7869	26	25
750.180641	0.9673	27	26
753.588863	0.3049	28	27
757.019182	0.1242	29	28
763.943484	0.1366	31	30
767.433386	0.2130	32	31
770.934044*	4.6008	33	32
777.987819	0.2448	35	34
781.525621	0.7266	36	35
785.070768	0.6340	37	36
792.166880*	3.2189	39	38
795.718391	0.0300	40	39
799.263679*	1.2851	41	40
802.799001	0.1923	42	41

THE RMS DEV = 0.000439 FOR 55 LINES

Table 130
04(2F)0-03(3F)0 HCNETS

observed	10^3(o-c)	J′	J″
580.009917	0.5108	31	32
582.856730*	3.7468	30	31
585.687829	0.1417	29	30
588.494424	0.2681	28	29
591.280826	0.4355	27	28
594.051375	0.0858	26	27
596.806899	0.0431	25	26
599.549323	0.1437	24	25
602.281525	0.3020	23	24
605.003927	0.0307	22	23
607.718747	0.6577	21	22
610.431275*	2.0791	20	21
613.134997	0.1356	19	20
615.837870	0.0390	18	19
618.538996	0.4390	17	18
621.240856	0.0516	16	17
623.943234	0.1552	15	16
626.647706	0.2236	14	15
629.355640	0.1483	13	14
632.066318	0.6358	12	13
634.783258	0.1434	11	12
637.503815	0.8792	10	11
640.232067	0.2721	9	10
642.966673	0.0491	8	9
645.708148	0.0942	7	8
648.457376	0.3083	6	7
651.214234	0.1940	5	6
653.984462*	5.1798	4	5
682.114713*	1.7585	5	4
684.974601*	1.5914	6	5
690.715436	0.2852	8	7
696.485609*	2.1729	10	9
699.374836*	1.0997	11	10
702.273623	0.5188	12	11
705.176254*	2.0754	13	12
708.078181	0.1436	14	13
710.988415*	3.7810	15	14
713.889432*	2.6889	16	15
716.799234	0.4857	17	16
719.706362	0.0803	18	17
722.610616	0.0444	19	18
725.508234*	3.0311	20	19
728.407405	0.4588	21	20
734.177616	0.4863	23	22
737.048810	0.4911	24	23
739.908077	0.2101	25	24

Table 130 continued
04(2F)0-03(3F)0 HCNETS

observed	10^3(o-c)	J′	J″
742.754387	0.5152	26	25
745.584768	0.4324	27	26
751.190150	0.0468	29	28
753.960148	1.0201	30	29
756.708207	0.4405	31	30
759.427874	0.2484	32	31
762.120752*	2.4045	33	32
764.776008*	1.5161	34	33
767.404698*	1.9358	35	34

THE RMS DEV = 0.000380 FOR 40 LINES

Table 131
04(0)0-03(1E)0 DCNECS

observed	10^3(o-c)	J′	J″
566.042438	0.2969	43	44
568.756670	0.6287	42	43
571.468965	0.2574	41	42
574.180005	0.4377	40	41
576.891045	0.1197	39	40
579.600123	0.3215	38	39
582.305161*	1.5224	37	38
585.010917	0.2316	36	37
587.712436	0.3033	35	36
590.410816	0.1475	34	35
593.105103	0.1941	33	34
595.795047	0.1409	32	33
598.479761	0.3009	31	32
601.159426	0.0938	30	31
603.832317	0.0939	29	30
606.498393	0.3325	28	29
609.157578	0.1605	27	28
611.808968	0.0033	26	27
614.451910	0.1225	25	26
617.086507	0.1420	24	25
619.712891	0.1918	23	24
622.330304	0.0578	22	23
624.939529	0.0404	21	22
627.541326	0.1359	20	21
630.136558	0.6692	19	20
632.724779	0.0664	18	19
635.309025	0.0560	17	18
637.890080	0.1270	16	17
640.470193	0.0075	15	16
643.050987	0.1569	14	15
645.634187	0.0029	13	14
648.222460	0.1049	12	13
650.817457	0.0040	11	12
653.421712	0.1314	10	11
656.036875	0.1670	9	10
658.664777	0.0609	8	9
661.307247	0.0792	7	8
663.967504*	1.4175	6	7
666.642618	0.2633	5	6
669.336931	0.3583	4	5
672.046440*	5.4031	3	4
674.786527	0.2327	2	3
677.542571	0.0023	1	2
680.319094	0.5143	0	1
688.779603*	1.4512	2	1
691.642234*	3.0942	3	2

Table 131 continued
04(0)0-03(1E)0 DCNECS

observed	10^3(o-c)	J′	J″
694.519930	0.0901	4	3
697.419468	0.1436	5	4
700.336687	0.2285	6	5
706.218313	0.1907	8	7
709.175708*	3.6842	9	8
712.152957*	1.1381	10	9
715.133711	0.3512	11	10
718.122285	0.4305	12	11
721.112560*	2.5022	13	12
724.109766	0.9407	14	13
727.106842	0.3153	15	14
733.090034	0.0090	17	16
736.073769	0.0011	18	17
739.049920	0.0939	19	18
742.016863	0.0904	20	19
744.973396	0.0409	21	20
747.919100	0.1824	22	21
750.852536	0.0407	23	22
753.774045	0.0218	24	23
756.683025	0.0601	25	24
762.464236	0.0443	27	26
765.336989	0.1096	28	27
768.197946	0.0143	29	28
771.048021	0.0530	30	29
773.887163	0.2205	31	30
776.716889	0.1840	32	31
779.537904*	1.4737	33	32
782.345710*	1.3351	34	33
785.148913	0.1005	35	34
787.943013	0.2419	36	35
790.728770	0.0492	37	36
793.507150	0.0807	38	37
796.278834	0.2013	39	38
799.043247	0.0246	40	39
801.801774	0.5138	41	40
807.298296	0.2577	43	42
810.037912	0.2561	44	43
812.772009	0.0571	45	44
815.500351	0.3353	46	45
818.221841	0.6053	47	46
820.939538	0.2280	48	47
823.650723	0.0701	49	48

THE RMS DEV = 0.000256 FOR 77 LINES

Table 132

04(0)0-03(1F)0 DCNECS

observed	10^3(o-c)	J′	J″
683.110813	0.6294	1	1
683.098624	0.4612	2	2
683.077620	0.1118	3	3
683.049581	0.0441	4	4
683.012595	0.1668	5	5
682.966821	0.4301	6	6
682.908832	0.3808	7	7
682.839962	0.1318	8	8
682.756731	0.0591	9	9
682.657990	0.0225	10	10
682.542143	0.1441	11	11
682.406939	0.2558	12	12
682.250314	0.2488	13	13
682.070016	0.1259	14	14
681.864870	0.0928	15	15
681.632913	0.2244	16	16
681.371478	0.1723	17	17
681.079963	0.4427	18	18
680.756955	0.8317	19	19
680.402873	0.0649	20	20
680.023315*	7.9740	21	21

THE RMS DEV = 0.000328 FOR 20 LINES

Table 133

04(0)0-03(1F)0 HCNETS

observed	10^3(o-c)	J′	J″
683.111519	0.0765	1	1
683.098142	0.0207	2	2
683.077633	0.0988	3	3
683.049623	0.0861	4	4
683.012643	0.1188	5	5
682.966593	0.2021	6	6
682.908971	0.2418	7	7
682.839984	0.1538	8	8
682.756679	0.0071	9	9
682.657968	0.0445	10	10
682.406782	0.0988	12	12
682.250292	0.2268	13	13
682.070110	0.0319	14	14
681.632819	0.1304	16	16
681.371306	0.3443	17	17
681.080303	0.1027	18	18
680.757007	0.7797	19	19
680.403127	0.1890	20	20
680.014286	1.0549	21	21
679.594403	0.4233	22	22
679.140392	1.1792	23	23
678.656229	0.1426	24	24
678.139217	0.0247	25	25
677.591983	0.0079	26	26
677.015725	0.1068	27	27
676.411827	0.4489	28	28
675.783033	0.0273	29	29
675.130135	0.0731	30	30
674.455356	0.0938	31	31
673.760692	0.0217	32	32
673.046614*	1.8920	33	33
672.320880	0.1477	34	34
671.579401	0.0557	35	35
670.827471	0.7881	36	36
670.063430	0.8923	37	37
667.737256	0.3792	40	40
666.165421	0.4221	42	42

THE RMS DEV = 0.000398 FOR 36 LINES

Table 134

03(3E)0-02(2F)0 DCNECS

observed	10^3(o-c)	J′	J″
710.938323	0.1761	7	7
710.979494	0.2028	8	8
711.025843	0.0071	9	9
711.079098	0.6956	10	10
711.202479	0.0092	12	12
711.354004	0.2805	14	14
711.440242	0.0243	15	15
711.534615	0.1024	16	16
711.635475*	1.3126	17	17
711.748341	0.9182	18	18
711.866909	0.1566	19	19
711.994893	0.2186	20	20
712.132790	0.0447	21	21
712.437436	0.2509	23	23
712.605440	0.0162	24	24
712.783776	0.0896	25	25
713.609671	0.1112	29	29
713.845211	0.0639	30	30
714.353591	0.1958	32	32
714.911249	0.3602	34	34
715.209983	0.1171	35	35
715.521273	0.2306	36	36
715.845249	0.0202	37	37
716.182512	0.0168	38	38
716.533063	0.1699	39	39
716.896195	0.2599	40	40
717.272798	0.3982	41	41
717.662924	0.1909	42	42
718.066362	0.1682	43	43
718.482933	0.5330	44	44
718.911195	0.4920	45	45
719.354131	0.1354	46	46
719.809674	0.4201	47	47
720.277354	0.0254	48	48
721.252184	0.3318	50	50
721.758707	0.7198	51	51
722.275378*	1.1885	52	52
722.807639	0.1730	53	53
723.350232	0.3229	54	54

THE RMS DEV = 0.000316 FOR 37 LINES

Table 135

03(3F)0-02(2E)0 DCNECS

observed	10^3(o-c)	J′	J″
710.929325	0.0464	7	7
711.001988	0.1398	9	9
711.042505	0.0325	10	10
711.085585	0.0338	11	11
711.177159	0.0194	13	13
711.224764	0.0304	14	14
711.320995	0.0959	16	16
711.369070	0.0436	17	17
711.416309	0.0228	18	18
711.462319	0.2395	19	19
711.507465	0.1469	20	20
711.551251	0.0614	21	21
711.593677	0.0343	22	22
711.674553	0.2444	24	24
711.714207	0.0969	25	25
711.794089	0.0249	27	27
711.836175	0.0727	28	28
711.881086	0.2061	29	29
711.929633	0.0577	30	30
711.984117	0.2014	31	31
712.045061	0.0106	32	32
712.114690	0.0090	33	33
712.194912	0.4583	34	34
712.511276	0.0242	37	37
712.648075	0.0723	38	38
712.803733	0.6310	39	39
713.627719	0.0000	43	43
713.889442	0.0320	44	44
714.174575	0.0017	45	45
715.171428	0.0526	48	48

THE RMS DEV = 0.000173 FOR 30 LINES

Table 136

03(3)0-02(2)0 DCNECS

observed	10^3(o-c)	J′	J″
710.829172	0.1050	3	3
710.848397	0.1577	4	4
710.875417*	3.2836	5	5
710.899664	1.0380	6	6
691.267985*	3.7548	6	7
691.279337*	7.5971	6	7
719.241997	0.0429	3	2
722.065367	0.0386	4	3
724.893445	0.0638	5	4
727.725524	0.3670	6	5
730.561449*	1.4020	7	6

THE RMS DEV = 0.000424 FOR 6 LINES

Table 137
03(3E)0-02(2E)0 DCNECS

observed	10^3(o-c)	J′	J″
567.530618*	1.5360	50	51
570.389717*	1.7327	49	50
576.124003*	5.3144	47	48
578.982030*	1.0538	46	47
581.847341	0.3088	45	46
584.711358	0.7457	44	45
587.576199	0.0545	43	44
590.438071*	1.3818	42	43
593.298439*	3.2531	41	42
596.162600	0.0903	40	41
599.021634	0.0961	39	40
601.878589	0.1917	38	39
604.732875	0.1753	37	38
607.584141	0.0891	36	37
610.430842*	1.2189	35	36
613.276432	0.0917	34	35
616.116149	0.3668	33	34
618.952388	0.1533	32	33
621.783055	0.1175	31	32
624.608910	0.1332	30	31
627.429663	0.0552	29	30
630.243669*	1.0136	28	29
633.053960	0.1891	27	28
635.857477	0.4827	26	27
638.656547	0.4028	25	26
641.448790	0.0232	24	25
644.236220	0.0599	23	24
647.018498	0.0387	22	23
649.796250	0.1869	21	22
652.569347	0.0483	20	21
655.339305	0.3619	19	20
658.105156	0.0905	18	19
660.868836	0.0517	17	18
663.630528	0.0499	16	17
666.390782	0.1353	15	16
669.150172	0.1442	14	15
671.909119	0.1314	13	14
674.668719	0.2090	12	13
677.429653	0.0032	11	12
680.192130	0.1564	10	11
682.956438	0.0174	9	10
685.723230	0.2403	8	9
688.493607	0.0487	7	8
691.267985	0.9121	6	7
733.399414	0.0137	8	7
736.241773	0.0362	9	8

Table 137 continued
03(3E)0-02(2E)0 DCNECS

observed	10^3(o-c)	J′	J″
739.086957	0.0122	10	9
741.934156	0.2008	11	10
744.783394	0.1247	12	11
747.633757	0.0985	13	12
750.484696	0.0515	14	13
753.335451	0.0829	15	14
756.185527	0.0083	16	15
759.033850	0.1272	17	16
761.880106	0.0591	18	17
764.723381	0.0534	19	18
767.562837	0.1262	20	19
770.397506	0.0677	21	20
773.227284	0.0836	22	21
776.051020	0.1080	23	22
778.868138	0.0595	24	23
781.677984	0.1450	25	24
784.480481	0.0797	26	25
787.275000	0.0554	27	26
790.060704	0.2257	28	27
792.838378	0.1326	29	28
795.606766	0.0671	30	29
798.366366	0.1928	31	30
801.116968	0.3468	32	31
803.858101	0.0422	33	32
806.590524	0.0334	34	33
809.314499	0.2636	35	34
812.029397	0.1482	36	35
814.735952	0.1685	37	36
817.434240	0.1930	38	37
820.124106	0.1546	39	38
822.806963	0.3094	40	39
825.481318	0.1386	41	40
828.149291	0.3931	42	41
830.809784	0.5859	43	42
833.462638	0.0695	44	43
836.108273	0.9346	45	44
838.750195	0.8949	46	45

THE RMS DEV = 0.000270 FOR 75 LINES

Table 138
03(3F)0-02(2F)0 DCNECS

observed	10^3(o-c)	J′	J″
596.693435*	1.4814	44	45
602.686030	0.6010	41	42
604.768945	0.2681	40	41
609.056979	0.1991	38	39
611.259471	0.2775	37	38
613.496200*	4.3611	36	37
615.777081	0.7552	35	36
618.090685	0.6008	34	35
620.435702	0.0307	33	34
622.813024	0.1300	32	33
625.217731*	2.9585	31	32
627.656834	0.1600	30	31
630.119425	0.0309	29	30
632.607650	0.2333	28	29
637.652839	0.1946	26	27
640.206954	0.0020	25	26
642.780711	0.1769	24	25
645.372123	0.0280	23	24
647.980564	0.1463	22	23
650.604516	0.1521	21	22
653.242984	0.1111	20	21
655.895473	0.5135	19	20
658.560019	0.3080	18	19
661.236912	0.6279	17	18
663.924005	0.1036	16	17
666.622111	0.2634	15	16
669.336931*	7.4651	14	15
672.046440	0.2856	13	14
674.771514	0.1513	12	13
677.504356	0.2323	11	12
680.245646	0.2717	10	11
682.993397	0.0912	9	10
685.747975	0.0325	8	9
688.508777	0.3649	7	8
691.279337*	2.9302	6	7
733.408883	0.0245	8	7
736.257650	0.0189	9	8
739.111858	0.1091	10	9
741.971978	0.0696	11	10
744.838088	0.1075	12	11
747.710579	0.1596	13	12
750.589950	0.0995	14	13
753.476619	0.0696	15	14
756.370742	0.0313	16	15
759.273052	0.0088	17	16
762.183915	0.2711	18	17

Table 138 continued
03(3F)0-02(2F)0 DCNECS

observed	10^3(o-c)	J′	J″
768.035382	0.0391	20	19
770.977058	0.0291	21	20
773.930374	0.0402	22	21
776.896480	0.0295	23	22
779.876161	0.1633	24	23
782.870883	0.0640	25	24
785.881534	0.0110	26	25
788.909474	0.1111	27	26
791.955646	0.0723	28	27
795.022036	0.0391	29	28
798.109377	0.2657	30	29
801.220339	0.1916	31	30
804.355155	0.1207	32	31
807.515788	0.0534	33	32
810.704094	0.0062	34	33
813.921409	0.0973	35	34
817.169091	0.1701	36	35
820.448161	0.1298	37	36
823.760659	0.0174	38	37
827.107133	0.0668	39	38
830.489103	0.2741	40	39
833.905522	0.8372	41	40
837.362797*	2.3939	42	41
840.850309	1.0721	43	42
844.380874*	1.3506	44	43

THE RMS DEV = 0.000286 FOR 64 LINES

Table 139
03(3E)0-02(2E)0 HCNETS

observed	10^3(o-c)	J′	J″
576.117550*	1.1385	47	48
578.982306	0.7778	46	47
581.847818	0.1681	45	46
584.708772*	3.3317	44	45
587.576246	0.1015	43	44
590.437924*	1.5288	42	43
593.298328*	3.3641	41	42
596.162253	0.2566	40	41
599.022335	0.7971	39	40
601.878357	0.0402	38	39
604.732378	0.3216	37	38
607.583834	0.2178	36	37
610.431275	0.7859	35	36
613.276093	0.2472	34	35
616.116589	0.0731	33	34
618.952160	0.0746	32	33
621.783207	0.0344	31	32
624.608981	0.0622	30	31
627.429451	0.1567	29	30
630.244554	0.1286	28	29
633.054035	0.1141	27	28
635.858048	0.0882	26	27
638.656755	0.6108	25	26
641.448847	0.0337	24	25
644.236168	0.0079	23	24
647.018435	0.0242	22	23
649.796095	0.0319	21	22
652.569489	0.0936	20	21
655.339018	0.0749	19	20
658.105302	0.0554	18	19
660.869037	0.1492	17	18
663.630503	0.0249	16	17
666.390746	0.0993	15	16
669.150023	0.0047	14	15
671.909204	0.0464	13	14
674.669032	0.1039	12	13
677.429691	0.0412	11	12
680.192146	0.1724	10	11
682.956370	0.0505	9	10
685.723291	0.1793	8	9
688.493667	0.1087	7	8
691.267650	0.5771	6	7
719.241902	0.1008	3	2
722.065308	0.0881	4	3
724.893486	0.6636	5	4
727.725409	0.8256	6	5

Table 139 continued
03(3E)0-02(2E)0 HCNETS

observed	10^3(o-c)	J′	J″
730.561723*	1.4959	7	6
733.399466	0.0382	8	7
736.241740	0.0692	9	8
739.086873	0.0717	10	9
741.934094	0.2628	11	10
744.783379	0.1397	12	11
747.633768	0.0875	13	12
750.484627	0.1205	14	13
753.335485	0.0489	15	14
756.185402	0.1166	16	15
759.033824	0.1532	17	16
761.880215	0.0498	18	17
764.723211	0.1165	19	18
767.563085	0.3742	20	19
770.397408	0.1657	21	20
773.227184	0.0163	22	21
776.050902	0.0099	23	22
778.868071	0.0074	24	23
781.677816	0.3130	25	24
784.480524	0.0367	26	25
787.274905	0.0395	27	26
790.060651	0.2787	28	27
792.838449	0.2036	29	28
795.606659	0.0398	30	29
798.366157	0.0162	31	30
801.116706	0.0848	32	31
803.858286	0.2272	33	32
806.590641	0.0835	34	33
809.314371	0.1356	35	34
812.029300	0.0512	36	35
814.735854	0.0705	37	36
817.434249	0.2020	38	37
820.124230	0.0306	39	38
822.806635	0.0185	40	39
825.481198	0.2586	41	40
828.149014	0.1161	42	41
830.808839	0.3590	43	42
833.462983	0.4145	44	43
836.109268	0.0603	45	44
838.749327	0.0269	46	45
841.382426	0.5890	47	46
844.011279	0.7730	48	47
846.631116	0.7939	49	48

THE RMS DEV = 0.000287 FOR 84 LINES

Table 140
03(3F)0-02(2F)0 HCNETS

observed	10^3(o-c)	J′	J″
594.779375	0.1027	45	46
596.693535*	1.5814	44	45
598.648117	0.5665	43	44
600.646824	0.9293	42	43
602.686101	0.5300	41	42
604.768878	0.3351	40	41
606.892768	0.1353	39	40
609.056735	0.0448	38	39
611.259780	0.0314	37	38
613.500315	0.2461	36	37
615.776772	1.0642	35	36
618.090752	0.6678	34	35
620.435751	0.0182	33	34
622.813209	0.0549	32	33
625.217853*	2.8365	31	32
627.656670	0.0039	30	31
630.119412	0.0439	29	30
632.607582	0.1653	28	29
637.652752	0.1076	26	27
640.206889	0.0629	25	26
642.781048	0.5139	24	25
645.372066	0.0289	23	24
647.980595	0.1773	22	23
650.604318	0.0458	21	22
655.894988	0.0285	19	20
658.559944	0.2330	18	19
661.236808	0.5239	17	18
663.923959	0.0576	16	17
666.621987	0.1394	15	16
669.329560	0.0941	14	15
672.046412	0.2576	13	14
674.771325	0.0376	12	13
677.504428	0.1603	11	12
680.244981	0.3932	10	11
682.993143	0.1627	9	10
685.748131	0.1234	8	9
688.508695	0.4469	7	8
733.408818	0.0895	8	7
736.257632	0.0369	9	8
739.111879	0.0881	10	9
741.972067	0.0194	11	10
744.838160	0.0355	12	11
747.710635	0.1036	13	12
750.589970	0.0795	14	13
753.476575	0.0256	15	14
756.370632	0.0786	16	15

Table 140 continued
03(3F)0-02(2F)0 HCNETS

observed	10^3(o-c)	J′	J″
759.272997	0.0638	17	16
762.183860	0.3261	18	17
765.104706	0.0288	19	18
768.035311	0.1101	20	19
770.976968	0.0608	21	20
773.930288	0.1262	22	21
776.896491	0.0185	23	22
779.876285	0.0393	24	23
782.871069	0.1219	25	24
785.881498	0.0470	26	25
788.909364	0.0011	27	26
791.955715	0.0033	28	27
795.022015	0.0181	29	28
798.109651	0.0082	30	29
801.220148	0.0006	31	30
804.354991	0.0432	32	31
807.515718	0.1234	33	32
810.704111	0.0107	34	33
813.921337	0.0253	35	34
817.169252	0.3311	36	35
820.448337	0.0461	37	36
823.760871	0.1945	38	37
827.107489	0.2891	39	38
830.488952	0.1231	40	39
833.906404	0.0447	41	40
837.360331	0.0720	42	41
844.374515*	5.0083	44	43
847.945113	0.2400	45	44

THE RMS DEV = 0.000265 FOR 70 LINES

Table 141
03(3F)0-02(2E)0 HCNETS

observed	10^3(o-c)	J′	J″
710.829058	0.1753	3	3
710.848355	0.6678	4	4
710.872990*	2.1428	5	5
710.899745*	1.6103	6	6
710.929461	0.1824	7	7
710.966609*	2.6423	8	8
711.001890	0.0418	9	9
711.043349	0.8114	10	10
711.085440	0.1788	11	11
711.131392	0.7403	12	12
711.177072	0.1064	13	13
711.224585	0.1485	14	14
711.273459	0.6052	15	15
711.322816*	1.7250	16	16
711.368976	0.0503	17	17
711.462303	0.2555	19	19
711.507298	0.3139	20	20
711.551250	0.0624	21	21
711.593712	0.0693	22	22
711.635318	0.6008	23	23
711.674547	0.2504	24	24
711.714173	0.1309	25	25
711.753204	0.6196	26	26
711.794883	0.7690	27	27
711.836015	0.0872	28	28
711.881125	0.2451	29	29
711.929598	0.0927	30	30
711.983964	0.0484	31	31
712.045008	0.0423	32	32
712.114943	0.2620	33	33
712.194279	0.1746	34	34
712.291875*	5.8323	35	35
712.280003*	6.0396	35	35
712.391011	0.1049	36	36
712.511333	0.0327	37	37
712.648312	0.1646	38	38
712.803992	0.8900	39	39
712.974157*	3.3166	40	40
713.173342	0.9280	41	41
713.386081*	2.8179	42	42
713.627570	0.1489	43	43
713.889432	0.0420	44	44
714.174268	0.3087	45	45
714.481418*	1.8418	46	46
714.817448*	1.8586	47	47
715.171795	0.3143	48	48

Table 141 continued
03(3F)0-02(2E)0 HCNETS

observed	10^3(o-c)	J′	J″
715.548036*	2.6809	49	49
715.954015	1.0461	50	50
716.377648	0.1667	51	51
716.829006*	4.2471	52	52
717.292542	0.7077	53	53
717.780790*	1.9060	54	54
718.285684*	6.7958	55	55
718.824747*	2.7778	56	56
719.370658	0.1304	57	57
719.937835	0.3130	58	58
720.522094	0.2350	59	59
721.123987	0.3526	60	60
721.751722*	8.7590	61	61
722.380198*	2.5699	62	62
723.027865	0.0788	63	63
723.691948	0.9628	64	64
724.367031*	5.4679	65	65
725.056543*	9.5266	66	66
725.770220*	2.9448	67	67

THE RMS DEV = 0.000439 FOR 45 LINES

Table 142
03(3E)0-02(2F)0 HCNETS

observed	10^3(o-c)	J′	J″
710.829058	0.1931	3	3
710.848355	0.4363	4	4
710.872990	0.4295	5	5
710.899745*	3.5243	6	6
710.938379	0.1201	7	7
710.979222	0.0691	8	8
711.025589	0.2611	9	9
711.078979	0.5766	10	10
711.136673	0.5206	11	11
711.202265	0.2232	12	12
711.273459	1.1075	13	13
711.353702	0.0214	14	14
711.440172	0.0943	15	15
711.534827	0.3144	16	16
711.635318*	1.4696	17	17
711.748362	0.9392	18	18
711.866915	0.1626	19	19
711.994774	0.3376	20	20
712.132868	0.0332	21	21
712.280003	0.2487	22	22
712.437573	0.1139	23	23
712.605381	0.0752	24	24
712.784053	0.1873	25	25
712.974157	0.9483	26	26
713.173342	0.4232	27	27
713.386081	0.2812	28	28
713.609468	0.0917	29	29
713.845188	0.0869	30	30
714.093716	0.5596	31	31
714.353549	0.1538	32	32
714.625529	0.6334	33	33
714.911144	0.4652	34	34
715.209833	0.0328	35	35
715.521226	0.1836	36	36
715.845552	0.3232	37	37
716.182410	0.0851	38	38
716.533007	0.1139	39	39
716.896216	0.2389	40	40
717.273254	0.0577	41	41
717.661499*	1.6159	42	42
718.067431*	1.2372	43	43
718.482748	0.3480	44	44
718.911157	0.5300	45	45
719.353825	0.1705	46	46
719.809666	0.4121	47	47
720.275227*	2.1524	48	48

Table 142 continued
03(3E)0-02(2F)0 HCNETS

observed	10^3(o-c)	J′	J″
720.756391*	1.8885	49	49
721.252518	0.6658	50	50
721.758593	0.6058	51	51
722.275432*	1.1345	52	52
722.808007	0.5410	53	53
723.356829*	6.2740	54	54
723.901167*	4.5306	55	55
724.471873	0.8805	56	56
725.052383	0.8047	57	57
725.640998*	1.0257	58	58
726.247586*	3.6471	59	59
726.861061*	3.8908	60	60
727.484564*	3.0023	61	61
730.090979*	3.4183	65	65

THE RMS DEV = 0.000445 FOR 45 LINES

Table 143

03(1F)0-02(0)0 DCNECS

observed	10^3(o-c)	J′	J″
695.516967	0.0447	1	1
695.557902	0.3345	2	2
695.618664	0.0234	3	3
695.700168	0.0993	4	4
695.802676	0.0610	5	5
695.925716	0.1744	6	6
696.070362	0.0222	7	7
696.236195	0.0506	8	8
696.423843	0.0824	9	9
696.633828	0.1011	10	10
696.866020	0.0041	11	11
697.121230	0.0182	12	12
697.399667	0.0300	13	13
697.701855	0.0364	14	14
698.028079	0.1207	15	15
698.379075	0.0672	16	16
698.754657	0.0107	17	17
699.155036	0.4469	18	18
699.581572	0.1186	19	19
700.033480	0.0362	20	20
700.510838	0.0445	21	21
701.013750	0.0790	22	22
701.541774	0.0967	23	23
702.095195	0.1580	24	24
702.672733	0.0820	25	25
703.273550	0.4735	26	26
703.898928	0.6369	27	27
704.543505	0.9112	28	28
705.210682	0.5122	29	29
705.897293	0.0295	30	30
706.601192	0.0698	31	31
707.321572	0.4226	32	32
708.055395	0.2356	33	33
709.561073	0.2626	35	35
710.328116	0.2245	36	36
711.102639	0.3776	37	37
712.666202	0.0232	39	39
715.027986	0.2040	42	42
716.599815	0.6276	44	44
717.383990	0.4485	45	45
718.164084	0.0614	46	46
718.940726	0.9182	47	47
719.716374	0.0616	48	48

THE RMS DEV = 0.000312 FOR 42 LINES

Table 144

03(1E)0-02(0)0 DCNECS

observed	10^3(o-c)	J′	J″
538.450155*	2.1676	55	56
541.160240	0.8834	54	55
546.593018	0.1251	52	53
549.312794	0.6274	51	52
552.034323	1.0104	50	51
554.756506	0.1770	49	50
557.482939	0.5445	48	49
560.210758	0.1795	47	48
562.941273	0.1097	46	47
565.674873	0.0989	45	46
568.411716	0.1886	44	45
571.151280	0.0324	43	44
573.894218	0.1300	42	43
576.640674	0.3866	41	42
579.391302	0.3303	40	41
582.146194	0.1294	39	40
584.905100	0.3054	38	39
587.669003	0.1545	37	38
590.438071	0.2081	36	37
593.211704	0.0992	35	36
595.991170	0.0835	34	35
598.776625	0.1502	33	34
601.567587	0.1194	32	33
604.364983	0.1751	31	32
607.168761	0.2397	30	31
609.979405	0.0477	29	30
612.796393	0.0987	28	29
615.619854	0.0410	27	28
618.450050	0.2074	26	27
621.286289	0.0545	25	26
624.128674	0.0840	24	25
626.977206	0.1058	23	24
629.830944	0.0787	22	23
632.689625	0.0453	21	22
635.552491	0.2065	20	21
638.419673	0.0638	19	20
641.289627	0.0243	18	19
644.162145	0.0264	17	18
647.036415	0.1399	16	17
649.911287	0.0803	15	16
652.786708	0.0719	14	15
655.661371	0.0443	13	14
658.534621	0.0789	12	13
661.406040	0.0004	11	12
664.274739	0.0756	10	11
667.140012	0.0914	9	10

Table 144 continued

03(1E)0-02(0)0 DCNECS

observed	10^3(o-c)	J′	J″
670.001282	0.0769	8	9
672.857845	0.1085	7	8
675.709699	0.0495	6	7
678.555772	0.0509	5	6
681.396196	0.1435	4	5
684.229871	0.0934	3	4
689.876950	0.6283	1	2
701.085759	0.0322	2	1
703.869266	0.2956	3	2
706.641761*	2.7682	4	3
709.412268	0.2468	5	4
712.172993	0.0292	6	5
714.924745*	1.4499	7	6
717.672288	0.0616	8	7
720.411538	0.1781	9	8
723.143725	0.1642	10	9
725.869897	0.2618	11	10
728.590471	0.0910	12	11
731.305474	0.0658	13	12
734.015507	0.0711	14	13
736.721093	0.1103	15	14
739.423044	0.0668	16	15
742.121332	0.1572	17	16
744.816456	0.8931	18	17
747.511109	0.0672	19	18
750.203512	0.0766	20	19
752.895131	0.0606	21	20
755.586462	0.1030	22	21
758.278290	0.0389	23	22
760.970667	0.0759	24	23
763.664457	0.0172	25	24
766.361282*	1.4713	26	25
769.057295	0.2518	27	26
771.756342	0.0423	28	27
774.457979	0.0122	29	28
779.868419	0.4259	31	30
782.576569	0.2466	32	31
785.286863	0.1878	33	32
787.999041	0.2013	34	33

Table 144 continued

03(1E)0-02(0)0 DCNECS

observed	10^3(o-c)	J′	J″
790.712762	0.2055	35	34
793.427634	0.1062	36	35
796.143552	0.1263	37	36
798.859993	0.0927	38	37
801.576566	0.0208	39	38
804.293085	0.0278	40	39
807.009030	0.0731	41	40
809.724163	0.0219	42	41
812.437884	0.1078	43	42
815.150063	0.1038	44	43
817.860488	0.1235	45	44
820.568193	0.0598	46	45
823.273283	0.2316	47	46
825.975443	0.4046	48	47
828.675327	0.3618	49	48
831.370790	0.1941	50	49
834.062880	0.3964	51	50
836.749738	0.6486	52	51
839.432411*	1.6665	53	52
844.787766	0.2111	55	54
847.454169*	3.6245	56	55

THE RMS DEV = 0.000256 FOR 100 LINES

Table 145

03(1E)0-02(0E)0 HCNETS

observed	10^3(o-c)	J′	J″
538.449290*	1.3026	55	56
541.161280	0.1565	54	55
543.877511*	1.3569	53	54
546.593537	0.3938	52	53
549.312972	0.8054	51	52
552.033755	0.4424	50	51
554.756950	0.2669	49	50
557.482717	0.3225	48	49
560.210684	0.1055	47	48
562.941535	0.1522	46	47
565.674771	0.2009	45	46
568.411650	0.1226	44	45
571.150969	0.2785	43	44
573.894009	0.3390	42	43
576.640782	0.2786	41	42
579.391470	0.1623	40	41
582.146143	0.1804	39	40
584.905250	0.1554	38	39
587.668942	0.2155	37	38
590.437924	0.0611	36	37
593.211739	0.0642	35	36
595.991037	0.2165	34	35
598.776408	0.0667	33	34
601.567599	0.1074	32	33
604.365076	0.0821	31	32
607.168854	0.1467	30	31
609.979298	0.0592	29	30
612.796262	0.0322	28	29
615.619864	0.0510	27	28
618.449811	0.0315	26	27
621.286230	0.0044	25	26
624.128740	0.0180	24	25
626.977105	0.0048	23	24
629.830939	0.0737	22	23
632.689545	0.0346	21	22
635.552666	0.0315	20	21
638.419655	0.0458	19	20
641.289597	0.0543	18	19
644.162076	0.0425	17	18
647.036452	0.1769	16	17
649.911334	0.0333	15	16
652.786641	0.0049	14	15
655.661312	0.0146	13	14
658.534555	0.1449	12	13
661.406076	0.0355	11	12
664.274603	0.0603	10	11
667.139974	0.0534	9	10
670.001278	0.0729	8	9
672.857853	0.1005	7	8
675.709587	0.0624	6	7

Table 145 continued

03(1E)0-02(0E)0 HCNETS

observed	10^3(o-c)	J′	J″
678.555741	0.0819	5	6
681.396187	0.1345	4	5
684.230388	0.4235	3	4
706.643518*	1.0112	4	3
712.173041	0.0187	6	5
714.924770*	1.4249	7	6
720.411432	0.0721	9	8
723.143752	0.1372	10	9
725.869690	0.4688	11	10
728.590425	0.1370	12	11
731.305396	0.1438	13	12
734.015384	0.1941	14	13
736.721010	0.1933	15	14
739.422879	0.0981	16	15
742.121358	0.1312	17	16
747.511071	0.1052	19	18
750.203470	0.1186	20	19
752.895030	0.1616	21	20
755.586542	0.0230	22	21
758.278246	0.0050	23	22
760.970631	0.1119	24	23
763.664392	0.0822	25	24
766.361133*	1.3223	26	25
769.057298	0.2548	27	26
771.756382	0.0023	28	27
774.457940	0.0267	29	28
779.868487	0.4939	31	30
785.286768	0.0928	33	32
790.712753	0.1965	35	34
793.427566	0.0382	36	35
796.143343	0.0826	37	36
798.859837	0.0632	38	37
801.576456	0.1308	39	38
804.293073	0.0398	40	39
807.009012	0.0911	41	40
809.724136	0.0489	42	41
812.437835	0.1568	43	42
815.150225	0.0581	44	43
817.860410	0.0455	45	44
820.568077	0.1758	46	45
820.568077	0.1758	46	45
823.273767	0.2523	47	46
825.975200	0.6476	48	47
828.674842	0.1231	49	48
831.370229	0.3668	50	49
834.062394	0.0895	51	50
836.750085	0.3016	52	51
839.434167	0.0894	53	52
842.114235	0.8932	54	53
844.788041	0.0638	55	54

THE RMS DEV = 0.000220 FOR 95 LINES

Table 146
03(1F)0-02(0E)0 HCNETS

observed	10^3(o-c)	J′	J″
695.516626	0.2962	1	1
695.558008	0.4405	2	2
695.618732	0.0914	3	3
695.700210	0.0573	4	4
695.802507	0.1079	5	5
695.925848	0.0424	6	6
696.070348	0.0082	7	7
696.236237	0.0086	8	8
696.423873	0.0524	9	9
696.633871	0.1441	10	10
696.865987	0.0371	11	11
697.121167	0.0447	12	12
697.399701	0.0039	13	13
697.701850	0.0414	14	14
698.028106	0.0937	15	15
698.378976	0.0317	16	16
698.754707	0.0392	17	17
699.154996	0.4869	18	18
699.581596	0.0946	19	19
700.033418	0.0257	20	20
700.510857	0.0635	21	21
701.013757	0.0860	22	22
701.541601	0.2697	23	23
702.095187	0.1500	24	24
702.672758	0.1070	25	25
703.273483	0.5405	26	26
703.899015	0.7239	27	27
704.543529	0.8872	28	28
705.210812	0.3822	29	29
705.897002	0.2614	30	30
706.601184	0.0618	31	31
707.321657	0.5076	32	32
708.055216	0.4146	33	33
708.802822	0.0343	34	34
709.561042	0.2316	35	35
710.328054	0.1625	36	36
711.102234	0.0273	37	37
711.881125*	1.0968	38	38
712.666349	0.1702	39	39
713.454514*	1.8449	40	40
714.240164	0.2208	41	41
715.026936*	1.2540	42	42
715.817103*	1.9715	43	43
716.599750*	0.6926	44	44
718.163958	0.0645	46	46
718.941933	0.2887	47	47

Table 146 continued
03(1F)0-02(0E)0 HCNETS

observed	10^3(o-c)	J′	J″
719.716715	0.4026	48	48
720.484943*	3.1190	49	49
721.252518*	4.5199	50	50
722.026196*	2.7216	51	51
722.787266	0.4105	52	52
723.550992	0.9891	53	53
724.308688*	2.1610	54	54
725.070777	0.1425	55	55
725.831049	1.2591	56	56
726.588944	0.1956	57	57

THE RMS DEV = 0.000362 FOR 47 LINES

Table 147

03(1E)0-02(2F)0 HCNETS

observed	10^3(o-c)	J′	J″
680.274428	0.3165	2	2
680.254878*	1.1499	3	3
680.231811	0.0258	4	4
680.201437	0.1657	5	5
680.164368	0.0199	6	6
680.120884	0.0327	7	7
680.070902	0.3100	8	8
680.014286	0.9285	9	9
679.948877	0.0359	10	10
679.877136	0.1331	11	11
679.797340	0.0123	12	12
679.709764	0.0946	13	13
679.613735	0.0886	14	14
679.508959	0.0034	15	15
679.395355	0.0693	16	16
679.272260	0.0150	17	17
679.140392	0.8090	18	18
678.996929	0.0715	19	19
678.843763	0.0181	20	20
678.679831	0.0606	21	21
678.505138	0.1905	22	22
678.318622	0.0555	23	23
678.120457	0.0465	24	24
677.910588	0.4377	25	25
677.683059*	4.4089	26	26
677.451876	0.1823	27	27
677.203709	0.0782	28	28
676.941768	0.1424	29	29
676.667199	0.5596	30	30
676.377711	0.1336	31	31
676.074599	0.0958	32	32
675.756709	0.5052	33	33
675.425763	0.2353	34	34
675.079336	0.0562	35	35
674.718497	0.1705	36	36
674.342792	0.2495	37	37
673.951387	0.4344	38	38
673.545010	1.0650	39	39
673.125837	0.6045	40	40
672.688337	0.9021	41	41
672.238586	0.5291	42	42
670.794138	0.9288	45	45
670.283696*	2.5261	46	46
667.496841*	2.6637	51	51
666.891164*	0.6266	52	52
666.277386*	2.8214	53	53

THE RMS DEV = 0.000402 FOR 40 LINES

Table 148

03(1F)0-02(2E)0 HCNETS

observed	10^3(o-c)	J′	J″
680.357823	0.4462	2	2
680.422276	0.0489	3	3
680.507523	0.9035	4	4
680.615494	0.2391	5	5
680.742269	0.0056	6	6
680.888761	0.0809	7	7
681.054209	0.0065	8	8
681.237603	0.1114	9	9
681.437712	0.0221	10	10
681.653954	0.1089	11	11
681.884748	0.1176	12	12
682.129059	0.2697	13	13
682.384965	0.0468	14	14
682.657968*	6.4535	15	15
682.926978	0.0051	16	16
683.209869	0.2251	17	17
683.497807	0.0675	18	18
683.789533	0.0870	19	19
684.082842	0.0408	20	20
684.376165	0.0404	21	21
684.667209	0.0022	22	22
684.954207	0.0465	23	23
685.235293	0.3165	24	24
685.507885	0.2246	25	25
685.770262	0.0439	26	26
686.020738	0.0704	27	27
686.257115	0.0693	28	28
686.477559	0.1452	29	29
686.680175	0.3104	30	30
686.862695	0.1660	31	31
687.024091	0.5062	32	32
687.161445	0.1781	33	33
687.273674	0.2064	34	34
687.359876	0.0605	35	35
687.417445	0.1180	36	36
687.444592*	1.1422	37	37
687.341054	0.0115	40	40
687.242223*	2.1833	41	41
687.105908	1.0434	42	42
686.935557	0.3788	43	43
686.730560	0.2478	44	44
686.492135	0.3720	45	45
685.568789	0.3331	48	48
684.788076	0.4064	50	50
684.350188	1.1454	51	51
682.293062*	1.2060	55	55

THE RMS DEV = 0.000343 FOR 42 LINES

Table 149
03(1E)0-02(2E)0 HCNETS

observed	10^3(o-c)	J′	J″
577.244071*	3.4966	33	34
584.067554	0.0395	31	32
587.435197*	4.7894	30	31
594.062306	0.2077	28	29
597.331947	0.4952	27	28
600.572156	0.0630	26	27
603.782732	0.3031	25	26
606.963746	0.0214	24	25
610.116199	0.8406	23	24
613.243144	0.0109	22	23
616.341418*	1.7020	21	22
619.417932	0.0965	20	21
622.470372*	1.3237	19	20
625.497436	0.0293	18	19
628.504308	0.0670	17	18
631.491070	0.1811	16	17
634.459223	0.1197	15	16
637.410033	0.0823	14	15
640.344389	0.0356	13	14
643.263880	0.0877	12	13
646.169356	0.1029	11	12
649.062568	0.0837	10	11
651.943794	0.1338	9	10
654.814173	0.5981	8	9
657.676099	0.1886	7	8
660.528371	0.2194	6	7
663.372294	0.0868	5	6
666.208881	0.1886	4	5
669.038108	0.0156	3	4
674.677497	0.1093	1	2
688.676046*	7.2663	3	2
694.228312*	7.6379	5	4
696.985755	0.0929	6	5
699.744002*	1.4228	7	6
702.491625	0.8964	8	7
705.229292	0.0245	9	8
707.957546	0.0905	10	9
710.674235	0.0688	11	10
716.069285	0.3265	13	12
718.744517	0.1533	14	13
721.404438	0.2079	15	14
724.047361	1.0692	16	15
726.669549	0.0844	17	16
729.272563	0.2377	18	17
731.854055	0.6223	19	18
734.409519*	1.8249	20	19

Table 149 continued
03(1E)0-02(2E)0 HCNETS

observed	10^3(o-c)	J′	J″
736.944667	0.0363	21	20
739.451622	0.2740	22	21
741.934094*	2.3025	23	22
744.383236	0.2033	24	23
746.800667*	3.7467	25	24
751.552767	0.4706	27	26
758.427822	0.2412	30	29
760.651071	0.4767	31	30
762.837882	0.1528	32	31
764.991500*	2.3894	33	32
767.104433	0.0428	34	33

THE RMS DEV = 0.000328 FOR 45 LINES

Table 150
03(1F)0-02(2F)0 HCNETS

observed	10^3(o-c)	J′	J″
549.628622	0.4584	52	53
552.165203	0.3246	51	52
554.688565	0.1666	50	51
559.695251	0.2406	48	49
562.177478	0.0848	47	48
564.644404	0.0574	46	47
567.096450	0.0085	45	46
569.533682	0.3946	44	45
571.955016	0.0063	43	44
574.362034	0.1737	42	43
576.754734	0.4772	41	42
579.132983	0.1779	40	41
581.498179	0.1192	39	40
583.851508	0.2021	38	39
586.193868	0.3145	37	38
588.526958	0.0502	36	37
590.851486	0.1230	35	36
593.169271	0.2400	34	35
595.482268	0.0506	33	34
597.791843	0.1545	32	33
600.101712*	2.4090	31	32
602.407480	0.6322	30	31
604.716501	0.5111	29	30
607.028193	0.1670	28	29
609.345467	0.0705	27	28
611.668893	0.1457	26	27
614.000426	0.1177	25	26
616.341418	0.7049	24	25
618.691684	0.1457	23	24
621.054009	0.0227	22	23
623.428860	0.3158	21	22
625.818209	0.0652	20	21
628.221801	0.0457	19	20
630.641191	0.0267	18	19
633.076795	0.1065	17	18
635.529807	0.0134	16	17
638.000540	0.0317	15	16
640.489828	0.1775	14	15
642.997801	0.0357	13	14
645.525392	0.0507	12	13
648.072832	0.0174	11	12
650.640695	0.1240	10	11
653.229074	0.1248	9	10
655.838411	0.1676	8	9
658.468431	0.2743	7	8
661.121061	0.5142	6	7
663.794163	0.2221	5	6

Table 150 continued
03(1F)0-02(2F)0 HCNETS

observed	10^3(o-c)	J′	J″
694.640324*	1.9763	5	4
697.569561*	1.7778	6	5
700.524647	0.3913	7	6
703.496061*	3.0823	8	7
706.491953*	1.3593	9	8
712.540352	0.0781	11	10
715.591918	0.2562	12	11
718.661714	0.6354	13	12
721.751722*	1.4878	14	13
724.856479*	1.2689	15	14
727.975929*	0.6738	16	15
731.113609	0.0693	17	16
734.265746	0.1065	18	17
737.431556	0.0661	19	18
740.610884	0.1919	20	19
743.802235	0.3941	21	20
747.004052	0.0690	22	21
750.216007	0.0540	23	22
753.436611	0.1077	24	23
756.664137	0.1663	25	24
759.898146	0.2065	26	25
763.136085	0.1685	27	26
766.377219	0.5573	28	27
769.618687	0.1562	29	28
772.859884	0.0674	30	29
776.098909	0.1482	31	30
779.333614	0.0454	32	31
782.562656	0.2286	33	32
785.783614	0.0868	34	33
788.995265	0.1805	35	34
792.195553	0.1850	36	35
795.382979	0.2541	37	36
798.555598	0.0087	38	37
801.712709	0.1142	39	38
804.852566	0.1452	40	39
807.973718	0.2669	41	40
811.076482	0.1133	42	41
814.159046	0.2056	43	42
817.220260	0.5971	44	43
820.261907	0.1521	45	44
823.282216	0.0437	46	45
826.281389	0.0422	47	46
829.259668	0.0194	48	47
832.217686	0.4218	49	48
835.154915	0.4156	50	49
838.071452	0.3607	51	50
840.969023	0.6641	52	51

THE RMS DEV = 0.000263 FOR 85 LINES

Table 151
02(2F)0-01(1E)0 DCNECS

observed	10^3(o-c)	J′	J″
729.153074*	6.8541	60	60
728.480221	0.0632	59	59
727.175294	0.1022	57	57
726.537047	0.5617	56	56
725.906909	0.1835	55	55
725.286788	0.3213	54	54
724.676711	0.0811	53	53
724.073984*	1.7631	52	52
723.484860	0.3071	51	51
722.902352	0.7853	50	50
722.331510	0.0795	49	49
721.769117	0.8801	48	48
721.219044	0.5976	47	47
720.676974	0.0478	46	46
720.146310	0.5030	45	45
719.624721	0.1625	44	44
719.114144	0.1879	43	43
718.613820	0.4110	42	42
717.646602	0.9129	40	40
717.177379	0.0189	39	39
716.719900	0.0425	38	38
715.837402	0.0911	36	36
715.412409	0.0329	35	35
714.999266	0.6678	34	34
714.596062	0.2182	33	33
714.204315	0.0732	32	32
713.823239	0.6142	31	31
713.453960	0.7775	30	30
713.097001	0.0486	29	29
712.750740	0.1862	28	28
712.415595	0.0008	27	27
712.092300	0.1688	26	26
711.780095	0.1154	25	25
711.479765	0.1174	24	24
711.190813	0.3815	23	23
710.914338	0.1462	22	22
710.650653*	1.7351	21	21
710.395443	0.0285	20	20
710.153782	0.0606	19	19
709.923839	0.0376	18	18
709.705981	0.0645	17	17
709.499893	0.0178	16	16
709.305732	0.0531	15	15
708.953508	0.0714	13	13
708.793927*	1.5923	12	12
708.649647	0.1254	11	11
708.393966	0.1628	9	9
708.283952	0.1708	8	8

Table 151 continued
02(2F)0-01(1E)0 DCNECS

observed	10^3(o-c)	J′	J″
707.966829	0.1476	4	4

THE RMS DEV = 0.000350 FOR 45 LINES

Table 152
02(2E)0-01(1F)0 DCNECS

observed	10^3(o-c)	J′	J″
720.594634	0.9709	55	55
719.980817	0.2052	54	54
719.378378	0.3953	53	53
718.790377*	1.2661	52	52
718.213546*	1.2515	51	51
717.098752	0.4734	49	49
716.561574	0.0631	48	48
716.039043	0.0845	47	47
715.530716	0.1757	46	46
715.036487	0.1997	45	45
714.557717	0.0087	44	44
714.093777*	0.1423	43	43
713.645793	0.1552	42	42
713.213293	0.1112	41	41
712.797325	0.4570	40	40
712.396658	0.3494	39	39
712.014145	0.2427	38	38
711.647821	0.0192	37	37
711.298997	0.0924	36	36
710.966572*	1.3197	35	35
710.650653*	3.8024	34	34
710.358981	0.0334	33	33
710.081564	0.0788	32	32
709.822247	0.1205	31	31
709.580769	0.0934	30	30
709.357575	0.0330	29	29
709.152220	0.0251	28	28
708.964520	0.1555	27	27
708.793927	0.1626	26	26
708.639995	0.0499	25	25
708.502412	0.0514	24	24
708.380391	0.0197	23	23
708.273044	0.2049	22	22
708.180398	0.2123	21	21
708.100201	0.1028	20	20
708.032063	0.6057	19	19
707.976036	0.2661	18	18
707.930027	0.1699	17	17
707.893224	0.1077	16	16
707.864557	0.1278	15	15

THE RMS DEV = 0.000271 FOR 35 LINES

Table 153
02(2E)0-01(1E)0 HCNETS

observed	10^3(o-c)	J′	J″
609.915651	0.7467	40	41
611.735835	0.3445	39	40
613.586648	0.6176	38	39
615.468196	0.1096	37	38
617.382873	0.2891	36	37
619.329172	0.0675	35	36
621.307687	0.3854	34	35
623.319739	0.0890	33	34
625.364051	0.1035	32	33
627.441310	0.2942	31	32
629.547423*	3.4133	30	31
633.868231	0.0357	28	29
636.075301	0.1227	27	28
638.314470	0.0534	26	27
640.584976	0.1968	25	26
642.886018	0.0709	24	25
645.217294	0.0336	23	24
647.578044	0.0745	22	23
649.967334	0.0908	21	22
652.384234	0.0551	20	21
654.827930	0.1146	19	20
657.297228	0.0818	18	19
659.791055	0.0793	17	18
662.308877	0.1500	16	17
664.848880	0.0109	15	16
667.410637	0.1194	14	15
669.992930	0.2770	13	14
672.594400	0.1095	12	13
675.214618	0.1292	11	12
677.852530	0.1717	10	11
680.507523	0.4563	9	10
683.178083	0.2389	8	9
685.864068	0.0817	7	8
688.564928	0.0702	6	7
694.008746	0.1487	4	5
696.751078	0.5299	3	4
713.465728	0.0983	2	1
716.294784	0.0728	3	2
719.135971	0.0796	4	3
721.990087	0.0175	5	4
724.856479	0.5851	6	5
727.737405	0.0016	7	6
730.631418	0.1086	8	7
733.539697	0.2466	9	8
736.463009	0.2237	10	9
739.402063	0.0251	11	10

Table 153 continued
02(2E)0-01(1E)0 HCNETS

observed	10^3(o-c)	J′	J″
742.356993	0.0724	12	11
745.329060	0.0195	13	12
748.318720	0.1755	14	13
751.327353	0.0196	15	14
754.355301	0.1038	16	15
757.403870	0.0396	17	16
760.473583	0.2334	18	17
763.566047	0.0058	19	18
766.681549	0.0183	20	19
769.821094	0.0367	21	20
772.985655	0.0345	22	21
776.175921	0.0632	23	22
779.392597	0.1243	24	23
782.636431	0.0945	25	24
785.907858	0.0738	26	25
789.207550	0.1698	27	26
792.535236	0.0240	28	27
795.891572	0.0987	29	28
799.277100	0.1956	30	29
802.691054	0.0847	31	30
806.134157	0.3199	32	31
809.605598	0.1957	33	32
813.105588	0.0975	34	33
816.633958	0.0908	35	34
820.190192	0.0549	36	35
823.774884	0.5826	37	36
827.385725	0.0573	38	37
831.024137	0.1816	39	38
834.688917	0.1638	40	39

THE RMS DEV = 0.000219 FOR 74 LINES

Table 154

02(2E)0-01(1F)0 HCNETS

observed	10^3(o-c)	J′	J″
707.832868	0.2485	4	4
707.823753	0.7417	6	6
707.844460*	1.2117	14	14
707.863941	0.7438	15	15
707.893351	0.0192	16	16
707.929578	0.6189	17	17
707.975718	0.5841	18	18
708.033021	0.3522	19	19
708.104511*	4.2071	20	20
708.179629	0.5566	21	21
708.272599	0.6499	22	22
708.380207	0.1642	23	23
708.501672	0.6885	24	24
708.639899	0.0460	25	25
708.964561	0.1965	27	27
709.152133	0.0618	28	28
709.357563	0.0450	29	29
709.580851	0.0114	30	30
709.822229	0.1025	31	31
710.081483	0.0021	32	32
710.358943	0.0045	33	33
710.653722	0.7334	34	34
710.966609*	1.2827	35	35
711.298909	0.1804	36	36
711.645633*	2.2072	37	37
712.014023	0.1207	38	38
712.396514	0.4934	39	39
712.797439	0.5710	40	40
713.213261	0.0792	41	41
713.645740	0.1022	42	42
714.557735	0.0267	44	44
715.036289	0.3977	45	45
715.531281	0.7407	46	46
716.038672	0.2864	47	47
716.561316	0.3211	48	48
717.093302*	4.9765	49	49
717.646516*	2.0759	50	50
718.212751	0.4565	51	51

THE RMS DEV = 0.000417 FOR 32 LINES

Table 155

02(2F)0-01(1E)0 HCNETS

observed	10^3(o-c)	J′	J″
707.967009	0.0323	4	4
708.098700*	2.5068	6	6
708.284305	0.1821	8	8
708.394319	0.5158	9	9
708.649563	0.0414	11	11
708.792209*	3.3103	12	12
708.953305	0.2744	13	13
709.120475*	3.2020	14	14
709.305570	0.2151	15	15
709.499675	0.2001	16	16
709.705819	0.0974	17	17
709.923713	0.1636	18	18
710.153355	0.3663	19	19
710.395391	0.0234	20	20
710.648264	0.6538	21	21
710.914275	0.0832	22	22
711.190818	0.3765	23	23
711.479677	0.2054	24	24
711.779950	0.2604	25	25
712.092042	0.0891	26	26
712.415594	0.0018	27	27
712.750567	0.0132	28	28
713.097005	0.0526	29	29
713.454514	0.2235	30	30
714.204523	0.2812	32	32
714.596325	0.4812	33	33
714.999928*	1.3298	34	34
715.412445	0.0030	35	35
715.845552*	8.2411	36	36

THE RMS DEV = 0.000266 FOR 23 LINES

Table 156

02(2F)0-01(1F)0 HCNETS

observed	10^3(o-c)	J′	J″
550.553842	0.5401	55	56
553.338525	0.7400	54	55
556.122957	0.0886	53	54
558.910573	0.4535	52	53
564.489253	0.2712	50	51
567.282007	0.2448	49	50
570.075805	0.1776	48	49
572.871139	0.0671	47	48
575.668145	0.0981	46	47
578.466308	0.1950	45	46
581.266398	0.0074	44	45
584.067554	0.1049	43	44
586.870204	0.0532	42	43
589.673939	0.1947	41	42
592.479423	0.1865	40	41
595.285286	0.2267	39	40
598.092798	0.1114	38	39
600.901278	0.0951	37	38
603.710745	0.1046	36	37
606.521233	0.0515	35	36
609.332558	0.0646	34	35
612.144848	0.0391	33	34
614.957532	0.2551	32	33
617.771533	0.0317	31	32
620.585902	0.0072	30	31
623.400966	0.0555	29	30
626.216470	0.0210	28	29
629.032788	0.2091	27	28
631.849217	0.1014	26	27
634.665966	0.0768	25	26
637.483390	0.0880	24	25
640.300928	0.0942	23	24
643.118647	0.0682	22	23
645.936621	0.1436	21	22
648.754715	0.2456	20	21
651.572645	0.1503	19	20
654.390492	0.0005	18	19
657.208570	0.1678	17	18
660.026214	0.0515	16	17
662.843874	0.1619	15	16
665.661024	0.0347	14	15
668.478320	0.3877	13	14
671.294181	0.2979	12	13
674.110724	0.1570	11	12
676.926413	0.2791	10	11
679.741169	0.0521	9	10
682.555567	0.1141	8	9
685.369217	0.1381	7	8
688.182029	0.0975	6	7

Table 156 continued

02(2F)0-01(1F)0 HCNETS

observed	10^3(o-c)	J′	J″
690.994054	0.1068	5	6
713.454514*	2.2607	2	1
716.253715	0.1310	3	2
719.053844	0.1125	4	3
721.852206	0.3133	5	4
724.649475	0.0062	6	5
727.444541	0.1981	7	6
730.238453	0.1884	8	7
733.029849	0.1299	9	8
735.819754	0.0620	10	9
738.607838	0.1283	11	10
741.393405	0.1881	12	11
744.177234	0.1659	13	12
746.958992	0.0711	14	13
749.738257	0.2588	15	14
752.515702	0.0109	16	15
755.290426	0.0952	17	16
758.062899	0.0402	18	17
760.832741	0.1363	19	18
763.600282	0.0141	20	19
769.127043	0.0913	22	21
771.886591	0.1170	23	22
774.642859	0.1343	24	23
777.396568	0.0559	25	24
780.147204	0.0930	26	25
782.894893	0.0505	27	26
785.639480	0.0145	28	27
788.380875	0.0054	29	28
791.118996	0.0359	30	29
793.853056	0.8233	31	30
796.585424	0.0714	32	31
799.313524	0.1425	33	32
802.037928	0.0321	34	33
804.758861	0.0360	35	34
807.476220	0.1218	36	35
810.189732	0.0877	37	36
812.899273	0.1189	38	37
815.605366	0.0961	39	38
818.307124	0.0819	40	39
821.005117	0.0113	41	40
823.699256	0.2913	42	41
826.388335	0.3070	43	42
829.073570	0.5179	44	43
831.754150	1.0787	45	44
834.431522	0.4692	46	45
837.103876	0.4253	47	46
839.771371	0.7139	48	47
842.435282	0.0144	49	48
845.093251	0.5232	50	49
847.745941*	1.5888	51	50
850.396143	0.3156	52	51

THE RMS DEV = 0.000253 FOR 98 LINES

Table 157
02(2E)0-01(1E)0 DCNECS

observed	10^3(o-c)	J′	J″
611.733598*	1.8924	39	40
613.591671*	5.6406	38	39
615.468799	0.4933	37	38
617.382809	0.2251	36	37
619.328023	1.0814	35	36
621.307633	0.4394	34	35
623.319336	0.3139	33	34
625.363920	0.0274	32	33
627.441068	0.0522	31	32
631.693451	0.1373	29	30
633.868399	0.1322	28	29
636.075309	0.1147	27	28
638.314314	0.1025	26	27
640.585177	0.3978	25	26
642.885939	0.0080	24	25
645.217381	0.1206	23	24
647.578040	0.0705	22	23
649.967053	0.1901	21	22
652.384132	0.0468	20	21
654.827995	0.1796	19	20
657.297388	0.2418	18	19
659.791211	0.0766	17	18
662.308888	0.1610	16	17
664.849008	0.1389	15	16
667.410576	0.0584	14	15
669.992624	0.0289	13	14
672.594474	0.1835	12	13
675.214606	0.1172	11	12
677.852342	0.0162	10	11
680.507447	0.3803	9	10
683.178036	0.1919	8	9
685.864058	0.0717	7	8
688.565014	0.1562	6	7
691.279337	0.5558	5	6
694.008673	0.0757	4	5
696.750984	0.4359	3	4
834.688912	0.1588	40	39
831.024660	0.7046	39	38
827.385989	0.3213	38	37
823.774600	0.2986	37	36
820.190570	0.3230	36	35
816.634110	0.2428	35	34
813.105375	0.1154	34	33
809.605569	0.1667	33	32
806.133883	0.0459	32	31
802.691151	0.1817	31	30

Table 157 continued
02(2E)0-01(1E)0 DCNECS

observed	10^3(o-c)	J′	J″
799.277113	0.2086	30	29
795.891742	0.0712	29	28
792.535301	0.0890	28	27
789.207319	0.0611	27	26
785.907847	0.0848	26	25
782.636650	0.1244	25	24
779.392866	0.1446	24	23
776.176153	0.1687	23	22
772.985623	0.0665	22	21
769.821145	0.0142	21	20
766.681438	0.0926	20	19
763.566083	0.0301	19	18
760.473771	0.0454	18	17
757.403849	0.0606	17	16
754.355402	0.0028	16	15
751.327383	0.0103	15	14
748.318799	0.0965	14	13
745.329126	0.0464	13	12
742.357108	0.0425	12	11
739.402066	0.0281	11	10
736.463189	0.0437	10	9
733.540006	0.0623	9	8
730.631523	0.0036	8	7
727.737347	0.0563	7	6
724.856799	0.2651	6	5
721.990036	0.0334	5	4
719.136168	0.1173	4	3
716.294907	0.1958	3	2
713.465757	0.0693	2	1

THE RMS DEV = 0.000240 FOR 72 LINES

Table 158
02(2F)0-01(1F)0 DCNECS

observed	10^3(o-c)	J′	J″
567.281359	0.4031	49	50
570.074360*	1.2673	48	49
572.871259	0.1871	47	48
575.667831	0.2158	46	47
581.266612	0.2214	44	45
584.067461	0.1979	43	44
589.673788	0.3457	41	42
592.479685	0.4485	40	41
595.284994	0.5187	39	40
598.092748	0.1614	38	39
600.900946	0.4271	37	38
603.710374	0.4756	36	37
606.521189	0.0955	35	36
609.332788	0.1653	34	35
612.144832	0.0231	33	34
614.957542	0.2451	32	33
617.772071	0.5697	31	32
620.586050	0.1552	30	31
623.400867	0.0434	29	30
626.216651	0.1599	28	29
629.032670	0.0911	27	28
631.849344	0.2284	26	27
634.666044	0.0011	25	26
637.483424	0.1220	24	25
640.300673	0.1607	23	24
643.118759	0.1802	22	23
645.936635	0.1576	21	22
648.754774	0.3046	20	21
651.572598	0.1033	19	20
654.390475	0.0175	18	19
657.208639	0.2368	17	18
660.026202	0.0395	16	17
662.843895	0.1829	15	16
665.660987	0.0022	14	15
668.478315	0.3827	13	14
671.294125	0.3539	12	13
674.110563	0.0039	11	12
676.926138	0.0041	10	11
679.741268	0.1511	9	10
682.555718	0.2651	8	9
685.369044	0.0349	7	8
688.182081	0.1495	6	7
690.994047	0.0998	5	6
693.804809	0.2529	4	5
696.615597	0.3848	3	4
716.253266	0.5800	3	2

Table 158 continued
02(2F)0-01(1F)0 DCNECS

observed	10^3(o-c)	J′	J″
719.053827	0.1295	4	3
721.852452	0.0673	5	4
724.649560	0.0912	6	5
727.444786	0.0468	7	6
730.238232	0.0325	8	7
733.030004	0.0250	9	8
735.819867	0.0509	10	9
738.607795	0.0853	11	10
741.393577	0.0161	12	11
744.177319	0.0809	13	12
746.958995	0.0681	14	13
749.738448	0.0678	15	14
752.515677	0.0140	16	15
755.290526	0.0047	17	16
758.062943	0.0037	18	17
760.832822	0.0553	19	18
763.600191	0.0768	20	19
766.361282*	3.7609	21	20
769.127081	0.0533	22	21
771.886654	0.1800	23	22
774.642984	0.0093	24	23
777.396542	0.0819	25	24
780.147196	0.1010	26	25
782.894868	0.0755	27	26
785.639428	0.0665	28	27
788.380901	0.0205	29	28
791.119131	0.0990	30	29
793.853751	0.1283	31	30
796.585599	0.2464	32	31
799.313497	0.1155	33	32
802.038047	0.1511	34	33
804.758987	0.1620	35	34
807.476291	0.1928	36	35
810.189855	0.2107	37	36
812.899418	0.0260	38	37
815.605396	0.1261	39	38
818.307164	0.0419	40	39
821.005112	0.0163	41	40
823.699034	0.0693	42	41
826.387985	0.6570	43	42
829.074189	0.1010	44	43
831.754979	0.2497	45	44
834.431113	0.8782	46	45
837.104945	0.6436	47	46
839.770721*	1.3639	48	47
842.435503	0.2354	49	48
845.094112	0.3377	50	49

THE RMS DEV = 0.000244 FOR 90 LINES

Table 159

02(0)0-01(1F)0 DCNECS

observed	10^3(o-c)	J′	J″
684.150617*	5.7087	45	45
684.680262*	7.8115	44	44
685.213804	0.1620	43	43
685.723230	0.9177	42	42
686.208279*	4.5575	41	41
687.140028	0.7024	39	39
687.574463	0.2950	38	38
687.991164	0.1491	37	37
688.385920*	2.8410	36	36
688.766132	0.7647	35	35
689.125549	0.0006	34	34
689.464591	0.0071	33	33
689.783963	0.0424	32	32
690.083613	0.0796	31	31
690.363646	0.1823	30	30
690.623957	0.1293	29	29
690.864964	0.1397	28	28
691.086955	0.2140	27	27
691.290061	0.1022	26	26
691.475067	0.1126	25	25
691.642234	0.0660	24	24
691.792713	0.0520	23	23
691.926870	0.0806	22	22
692.045960	0.4433	21	21
692.149697	0.0459	20	20
692.240513	0.0889	19	19
692.318669	0.1103	18	18
692.385290	0.1169	17	17
692.441579	0.2719	16	16
692.488163	0.1634	15	15
692.526404	0.1290	14	14
692.557191	0.0596	13	13
692.581490	0.0394	12	12
692.600428	0.0444	11	11
692.614735	0.1813	10	10
692.625329	0.4892	9	9

THE RMS DEV = 0.000298 FOR 32 LINES

Table 160

02(0)0-01(1E)0 DCNECS

observed	10^3(o-c)	J′	J″
570.389717	0.2218	45	46
573.079100	0.4483	44	45
575.764624	0.1377	43	44
578.448108	0.1058	42	43
581.128087	0.0160	41	42
583.804757	0.0371	40	41
586.477739	0.0696	39	40
589.146746	0.1401	38	39
591.811750	0.0286	37	38
594.472139	0.1163	36	37
597.128158	0.0484	35	36
599.779156	0.0093	34	35
602.425183	0.1031	33	34
605.066268	0.1148	32	33
607.702487	0.0643	31	32
610.333383	0.0545	30	31
612.959649	0.1158	29	30
615.580828	0.0680	28	29
618.197874	0.0738	27	28
620.810579	0.0320	26	27
626.025996	0.1095	24	25
628.629624	0.0739	23	24
631.231290	0.2198	22	23
633.832590	0.0158	21	22
636.433733	0.1150	20	21
639.035713	0.1423	19	20
641.639446	0.0433	18	19
646.856850	0.1477	16	17
652.093663	0.1188	14	15
654.721853	0.1078	13	14
657.357836	0.1270	12	13
660.002399	0.0893	11	12
662.656196	0.1695	10	11
665.320873	0.2402	9	10
667.996039	0.2382	8	9
670.682767	0.2785	7	8
673.381369	0.1270	6	7
676.092762	0.2292	5	6
678.816920	0.1635	4	5
681.554443	0.2104	3	4
684.305437	0.2330	2	3
687.069929	0.0919	1	2
689.848727	0.5054	0	1
844.380874*	6.4793	53	52
841.666132	0.4314	52	51
838.951287	0.1887	51	50
836.229117	0.0660	50	49

Table 160 continued

02(0)0-01(1E)0 DCNECS

observed	10^3(o-c)	J′	J″
833.498682	0.5172	49	48
830.761603	0.2184	48	47
828.016677	0.1319	47	46
825.264270	0.2258	46	45
822.503363	0.0382	45	44
819.734739	0.0075	44	43
816.957955	0.0150	43	42
814.172957	0.1202	42	41
811.379380	0.0908	41	40
808.577302	0.1524	40	39
805.766382	0.1085	39	38
802.946623	0.0995	38	37
800.117420	0.3543	37	36
797.279952	0.0335	36	35
794.432832	0.0402	35	34
791.576558	0.0252	34	33
788.711050	0.0114	33	32
785.836309	0.0365	32	31
782.952230	0.1461	31	30
780.059467	0.0384	30	29
777.158961	1.0707	29	28
774.247836	0.0052	28	27
771.329754	0.0025	27	26
768.404060	0.0662	26	25
765.471539	0.0041	25	24
762.531981	0.6797	24	23
759.588291	0.0170	23	22
756.639082	0.1479	22	21
753.686525	0.0632	21	20
750.730960	0.0096	20	19
747.774035	0.2267	19	18
744.816456	0.3830	18	17
741.858903	0.0172	17	16
738.903338	0.0421	16	15
735.950284	0.4033	15	14
733.002121	0.1988	14	13
730.058117	0.0547	13	12
727.120391	0.0929	12	11
724.190146	0.2872	11	10
721.267277	0.0370	10	9
718.353719	0.2092	9	8
712.556632	0.7264	7	6
709.672553	0.8953	6	5
706.803121	0.4117	5	4
703.944597	0.3871	4	3
701.098524	0.1283	3	2
698.266549	0.9133	2	1

THE RMS DEV = 0.000269 FOR 93 LINES

Table 161

02(0)0-01(1F)0 HCNETS

observed	10^3(o-c)	J′	J″
692.644779*	3.5032	4	4
692.633382*	6.0134	6	6
692.624996	0.1562	9	9
692.614433	0.1206	10	10
692.600261	0.1225	11	11
692.581182	0.3474	12	12
692.557152	0.0206	13	13
692.526369	0.0940	14	14
692.487997	0.0025	15	15
692.441471	0.1639	16	16
692.385213	0.0399	17	17
692.318579	0.0203	18	18
692.240524	0.0999	19	19
692.149819	0.0760	20	20
692.046095	0.5783	21	21
691.926776	0.0133	22	22
691.792596	0.0649	23	23
691.642103	0.1970	24	24
691.474977	0.0226	25	25
691.289990	0.0312	26	26
691.086870	0.1290	27	27
690.864950	0.1257	28	28
690.624009	0.1813	29	29
690.363469	0.0053	30	30
690.083685	0.1516	31	31
689.784008	0.0874	32	32
689.464654	0.0701	33	33
689.125669	0.1206	34	34
688.766171	0.7257	35	35
688.385428*	3.3330	36	36
687.991090	0.2231	37	37
687.574555	0.2030	38	38
687.139302	0.0235	39	39
686.680175*	5.0893	40	40
686.211338*	1.4985	41	41
685.723291	0.9787	42	42
685.215105	1.1389	43	43
684.687898	0.1755	44	44
684.145262	0.3537	45	45
683.582898*	1.8422	46	46

THE RMS DEV = 0.000332 FOR 33 LINES

Table 162
02(0)0-01(1E)0 HCNETS

observed	10^3(o-c)	J′	J″
529.905839	0.6012	60	61
535.308040	0.2396	58	59
538.010049	0.4790	57	58
540.712487	1.0171	56	57
543.414192	0.8485	55	56
546.115254	0.2278	54	55
548.816528	0.1832	53	54
551.517724	0.6071	52	53
554.217351	0.1998	51	52
556.916703	0.4565	50	51
559.614284	0.0915	49	50
562.310514	0.2548	48	49
565.005996	0.2499	47	48
567.699008	0.1227	46	47
570.389955	0.0161	45	46
573.078693	0.0413	44	45
575.764780	0.0182	43	44
578.447886	0.1161	42	43
581.128013	0.0900	41	42
583.804729	0.0651	40	41
586.477585	0.2236	39	40
589.146777	0.1091	38	39
591.811661	0.1176	37	38
594.472171	0.0843	36	37
597.128167	0.0574	35	36
599.779247	0.0816	34	35
602.425203	0.0831	33	34
605.066276	0.1068	32	33
607.702385	0.0376	31	32
610.333384	0.0535	30	31
612.959639	0.1058	29	30
615.580898	0.0019	28	29
618.197854	0.0538	27	28
620.810577	0.0340	26	27
623.419862	0.0735	25	26
626.025957	0.0705	24	25
628.629531	0.0190	23	24
631.231536	0.0261	22	23
633.832491	0.0831	21	22
636.433721	0.1030	20	21
639.035646	0.0753	19	20
641.639454	0.0513	18	19
644.246101	0.0094	17	18
646.856856	0.1537	16	17
649.472159	0.0246	15	16
652.093648	0.1038	14	15

Table 162 continued
02(0)0-01(1E)0 HCNETS

observed	10^3(o-c)	J′	J″
654.721925	0.1798	13	14
657.357852	0.1430	12	13
660.002358	0.0483	11	12
662.656349	0.0165	10	11
665.320927	0.2942	9	10
667.996007	0.2062	8	9
670.682652	0.1635	7	8
673.381359	0.1170	6	7
676.093526	0.9932	5	6
678.816939	0.1825	4	5
681.554447	0.2144	3	4
684.305382	0.1780	2	3
687.070081	0.2439	1	2
712.556227	0.3214	7	6
715.453301*	3.8176	8	7
718.353350	0.1597	9	8
721.267318	0.0780	10	9
724.190175	0.3162	11	10
727.120430	0.0539	12	11
730.058121	0.0507	13	12
733.002024	0.1018	14	13
735.949929	0.7583	15	14
738.903299	0.0811	16	15
741.858765	0.1207	17	16
744.816375	0.3020	18	17
747.774048	0.2397	19	18
750.730848	0.1216	20	19
753.686410	0.0517	21	20
756.639052	0.1779	22	21
759.588127	0.1469	23	22
762.531799	0.8617	24	23
765.471435	0.0998	25	24
768.403904	0.2222	26	25
771.329588	0.1685	27	26
774.247726	0.1152	28	27
777.159201*	1.3107	29	28
780.059434	0.0714	30	29
782.952326	0.0501	31	30
785.836282	0.0095	32	31
788.711011	0.0275	33	32
791.576536	0.0472	34	33
794.432751	0.1212	35	34
797.279939	0.0205	36	35
802.946589	0.0655	38	37
805.766349	0.0755	39	38
808.577230	0.0804	40	39

Table 162 continued

02(0)0-01(1E)0 HCNETS

observed	10^3(o-c)	J′	J″
811.379281	0.0081	41	40
814.172880	0.0432	42	41
816.957966	0.0260	43	42
819.734889	0.1424	44	43
822.503275	0.1262	45	44
825.263995	0.0491	46	45
822.503275	0.1262	45	44
825.263995	0.0491	46	45
828.016603	0.2059	47	46
830.761734	0.0874	48	47
833.499227	0.0277	49	48
836.229027	0.0239	50	49
838.951095	0.3807	51	50
841.666216	0.3474	52	51
844.374515	0.1203	53	52
847.074184	0.8564	54	53

THE RMS DEV = 0.000274 FOR 105 LINES

Table 163

01(1E)0-00(0)0 DCNECS CORRECTED

observed	10^3(o-c)	J′	J″
850.328518	0.0965	53	52
847.669909	0.6556	52	51
845.005023	0.3672	51	50
842.336579	0.5286	50	49
839.664734	0.2466	49	48
836.987868	0.2569	48	47
834.306293	0.2670	47	46
831.621266	0.1491	46	45
828.932080	0.1770	45	44
826.239389	0.2229	44	43
823.542277	0.0550	43	42
820.841843	0.3385	42	41
818.137198	0.1052	41	40
815.429101	0.0353	40	39
812.717551	0.0490	39	38
810.002626	0.1464	38	37
807.284197	0.1204	37	36
804.562472	0.1016	36	35
801.837425	0.0130	35	34

Table 163 continued

01(1E)0-00(0)0 DCNECS CORRECTED

observed	10^3(o-c)	J′	J″
799.109397	0.0405	34	33
796.378203	0.0010	33	32
793.643923	0.1277	32	31
790.906844	0.1344	31	30
788.166809	0.2514	30	29
785.424081	0.2906	29	28
782.678579	0.4076	28	27
779.930201	0.7787	27	26
777.179468	0.9567	26	25
774.426381	1.0141	25	24
771.670496*	1.4680	24	23
768.912806*	1.3982	23	22
557.425224	0.1175	52	53
565.692960	0.3741	49	50
568.451488	0.6128	48	49
571.213742	0.3071	47	48
573.976324	0.2242	46	47
576.741443	0.0419	45	46
579.507804	0.1487	44	45
582.276127	0.0352	43	44
585.045692	0.2957	42	43
587.817193	0.1943	41	42
590.590198	0.1202	40	41
593.364655	0.0823	39	40
596.140524	0.0768	38	39
598.917845	0.0196	37	38
601.696421	0.0628	36	37
604.476345	0.0684	35	36
607.257550	0.0576	34	35
610.039893	0.1270	33	34
612.823347	0.2570	32	33
615.608319	0.0066	31	32
618.394049	0.0482	30	31
621.180904	0.0064	29	30
623.968648	0.0552	28	29
626.757360	0.0664	27	28
629.547118	0.0877	26	27
632.337321	0.1434	25	26
635.128466	0.2123	24	25
637.920343	0.2777	23	24

THE RMS DEV = 0.000306 FOR 57 LINES

Table 164

01(1F)0-00(0)0 DCNECS

observed	10^3(o-c)	J′	J″
727.245681	0.0427	60	60
726.552845	0.4309	59	59
725.193435	0.2865	57	57
724.526703*	1.8462	56	56
723.874069*	1.1041	55	55
723.226380	0.6910	54	54
722.591010	0.0407	53	53
721.964847	0.0871	52	52
721.348650	0.1081	51	51
720.742366	0.0472	50	50
720.146310	0.1606	49	49
719.561160	0.3506	48	48
718.985663	0.1397	47	47
718.420968	0.2630	46	46
717.866657	0.2112	45	45
717.322783	0.0522	44	44
716.790156	0.1943	43	43
716.268698	0.7861	42	42
715.756787	0.0161	41	41
715.256437	0.1855	40	40
714.767806	0.2572	39	39
714.290213	0.5829	38	38
713.823239	0.2939	37	37
713.367617	0.0460	36	36
712.923557	0.0260	35	35
712.490900	0.1550	34	34
712.070093	0.0342	33	33
711.660403	0.2613	32	32
711.262770	0.1700	31	31
710.875417*	1.5353	30	30

THE RMS DEV = 0.000296 FOR 27 LINES

Table 165

01(1E)0-00(0E)0 HCNETS

observed	10^3(o-c)	J′	J″
521.817904	0.0355	65	66
532.734712	0.7818	61	62
538.205995	0.2093	59	60
540.945300	0.2433	58	59
543.685961	0.5509	57	58
546.430466	0.3484	56	57
549.176117	0.2782	55	56
551.923823	0.1825	54	55
554.673355	0.1317	53	54
557.425622	0.2804	52	53
560.179454	0.2859	51	52
562.934629	0.2997	50	51
565.692800	0.2141	49	50
568.451907	0.1938	48	49
571.213379	0.0558	47	48
573.976517	0.0312	46	47
576.741289	0.1120	45	46
579.507797	0.1557	44	45
582.276023	0.1392	43	44
585.045791	0.1967	42	43
587.817293	0.0943	41	42
590.590271	0.0472	40	41
593.364691	0.0463	39	40
596.140604	0.0031	38	39
598.917770	0.0946	37	38
601.696463	0.0208	36	37
604.476326	0.0874	35	36
607.257528	0.0796	34	35
610.039936	0.0840	33	34
612.823297	0.3070	32	33
615.608264	0.0483	31	32
618.394094	0.0032	30	31
621.180846	0.0644	29	30
623.968650	0.0532	28	29
626.757348	0.0784	27	28
629.547423	0.3927	26	27
632.337229	0.2354	25	26
635.128232	0.4463	24	25
637.919483	1.1377	23	24
779.929494*	1.4857	27	26
782.677968	1.0186	28	27
785.423600	0.7716	29	28
788.166659	0.4014	30	29
790.906273	0.7054	31	30
793.643773	0.2777	32	31
796.378082	0.1199	33	32
799.109229	0.1274	34	33
801.837265	0.1730	35	34

Table 165 continued

01(1E)0-00(0E)0 HCNETS

observed	10^3(o-c)	J′	J″
804.562338	0.0323	36	35
807.284125	0.0484	37	36
810.002531	0.0514	38	37
812.717498	0.0039	39	38
815.429133	0.0673	40	39
818.137107	0.0142	41	40
820.841829	0.3245	42	41
823.542214	0.0079	43	42
826.239266	0.0999	44	43
828.931966	0.2910	45	44
831.621049	0.3661	46	45
834.306459	0.1010	47	46
836.987309	0.3020	48	47
839.664450	0.0373	49	48
842.336864	0.2436	50	49
845.003562*	1.8282	51	50
847.669371	0.1176	52	51
850.328734	0.1194	53	52

THE RMS DEV = 0.000319 FOR 64 LINES

Table 166

01(1F)0-00(0E)0 HCNETS

observed	10^3(o-c)	J′	J″
705.089806*	8.5907	3	3
705.139968*	7.5859	4	4
705.279032*	6.0015	6	6
705.371627*	9.1391	7	7
705.473339*	8.6578	8	8
705.589675*	0.0822	9	9
705.718734*	1.5311	10	10
705.856206*	8.7161	11	11
706.009554*	9.1244	12	12
706.174724*	8.7280	13	13
706.352259*	8.0983	14	14
706.543109*	8.2157	15	15
706.745767*	7.6057	16	16
706.961150*	7.2200	17	17
707.187183*	5.0204	18	18
707.429592*	6.7716	19	19
707.681946*	6.0836	20	20

Table 166 continued

01(1F)0-00(0E)0 HCNETS

observed	10^3(o-c)	J′	J″
707.946929*	5.6835	21	21
708.223414*	4.4892	22	22
708.515462*	6.6088	23	23
708.816016*	5.0344	24	24
709.130114*	4.8551	25	25
709.455089*	3.4570	26	26
709.793002*	2.9561	27	27
710.143148*	2.7045	28	28
710.501779	0.9869	29	29
710.880112*	3.1596	30	30
711.262703	0.2370	31	31
711.660901	0.2366	32	32
712.070372	0.3132	33	33
712.491208	0.1529	34	34
712.923538	0.0450	35	35
713.367406	0.1649	36	36
713.822881	0.0640	37	37
714.290599	0.9689	38	38
714.767795	0.2462	39	39
715.256569	0.0535	40	40
715.756925	0.1541	41	41
716.269000	1.0881	42	42
716.789934	0.0276	43	43
717.322787	0.0482	44	44
717.866512	0.0662	45	45
718.421046	0.3410	46	46
718.985674	0.1507	47	47
719.561236	0.4266	48	48
720.146250	0.2206	49	49
720.741741	0.6722	50	50
721.348842	0.3001	51	51
721.964163	0.5968	52	52
722.591741	0.7717	53	53
723.226062	1.0090	54	54
723.872667	0.2978	55	55
724.524865*	3.6842	56	56
725.193676	0.0455	57	57
726.552662	0.2479	59	59
727.245590	0.1337	60	60
727.947126	1.0744	61	61
728.659136	0.6005	62	62
729.379054*	1.1694	63	63
730.109020	0.5318	64	64

THE RMS DEV = 0.000510 FOR 32 LINES

Table 167

10(0)0-01(1F)0 HCNBKS / HCNBJS

observed	10^3(o-c)	J′	J″
2577.948664	0.6098	24	24
2578.693369	0.5199	23	23
2579.406027	0.1073	22	22
2580.087698	0.7281	21	21
2580.739575	0.7342	20	20
2581.361304	0.2096	19	19
2581.951656	0.3314	18	18
2582.511641	0.0374	17	17
2583.040334	0.2073	16	16
2583.538349	0.1784	15	15
2584.005389	0.2085	14	14
2584.441496	0.2138	13	13
2584.846385	0.4430	12	12
2585.220750	0.1666	11	11
2585.563846	0.0980	10	10
2585.875791	0.0891	9	9
2586.156514	0.1856	8	8
2586.406166	0.2116	7	7
2586.624693	0.1989	6	6
2586.812157	0.0684	5	5
2586.968157	0.2039	4	4
2587.093110	0.1752	3	3
2587.186354	0.6347	2	2
2587.249315	0.1459	1	1
2568.851002	0.0451	34	34
2569.896124	0.4441	33	33
2570.909978	0.6666	32	32
2571.896377	0.6132	31	31
2572.850723	0.2332	30	30
2573.775852	0.2876	29	29
2574.669489*	1.7469	28	28
2575.536431	0.2620	27	27
2576.371273	0.4057	26	26
2577.175405	0.1465	25	25
2577.949348	0.0743	24	24
2578.693238	0.3887	23	23
2579.406112	0.1920	22	22
2580.088608	0.1821	21	21
2580.740165	0.1440	20	20
2581.361550	0.0361	19	19
2581.952053	0.0657	18	18
2582.511684	0.0054	17	17
2583.040573	0.0320	16	16
2583.538593	0.0651	15	15
2587.093198	0.0879	3	3
2587.186981	0.0069	2	2
2587.249376	0.0855	1	1

THE RMS DEV = 0.000316 FOR 45 LINES

Table 168

10(0)0-01(1E)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2512.333661	0.8005	24	25
2515.528983	0.7551	23	24
2518.710456	0.1845	22	23
2521.875632	0.1484	21	22
2525.024482	0.2976	20	21
2528.156607	0.0536	19	20
2531.273018	0.1865	18	19
2534.372822	0.2056	17	18
2537.456094	0.1579	16	17
2540.522787	0.0749	15	16
2543.572920	0.0531	14	15
2546.606330	0.0060	13	14
2549.622970	0.0374	12	13
2552.622919	0.0763	11	12
2555.605743	0.0125	10	11
2558.571562	0.1113	9	10
2561.520561	0.0372	8	9
2564.452522	0.2864	7	8
2567.366407	0.3316	6	7
2570.263822	0.1415	5	6
2573.143691	0.1507	4	5
2576.006123	0.1826	3	4
2578.851120	0.1687	2	3
2581.678648	0.0770	1	2
2584.488667	0.1170	0	1
2592.811794	0.0735	2	1
2595.550476	0.0071	3	2
2598.271443	0.1478	4	3
2600.974223	0.0829	5	4
2603.659284	0.3389	6	5
2606.325674	0.0213	7	6
2608.974187	0.0192	8	7
2611.604534	0.0163	9	8
2614.216573	0.0570	10	9
2616.810296	0.0956	11	10
2619.385652	0.1304	12	11
2621.942627	0.1234	13	12
2624.481125	0.1198	14	13
2627.001072	0.1436	15	14
2629.502472	0.1419	16	15
2631.985246	0.1456	17	16
2634.449362	0.1397	18	17
2636.894771	0.1272	19	18
2639.321421	0.1151	20	19
2641.729243	0.1282	21	20
2644.118235	0.1255	22	21
2646.488374	0.0880	23	22
2648.839523	0.1117	24	23

Table 168 continued

10(0)0-01(1E)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2651.171725	0.1136	25	24
2653.484977	0.0576	26	25
2655.779137	0.0479	27	26
2658.054187	0.0655	28	27
2660.310199	0.0028	29	28
2662.546910	0.0877	30	29
2664.764504	0.1028	31	30
2666.963004	0.0075	32	31
2669.141897	0.2379	33	32
2671.301939	0.0529	34	33
2673.441815	0.7232	35	34
2675.564821	1.0754	36	35
2677.664978	0.6088	37	36
2679.746777*	1.2590	38	37
2681.809202*	1.8666	39	38
2683.853626	1.0347	40	39

THE RMS DEV = 0.000295 FOR 62 LINES

Table 169

11(1F)0-02(0)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2576.837734	0.0521	23	23
2577.114225	0.9956	22	22
2577.388650*	1.6577	21	21
2577.660046*	1.9908	20	20
2577.927278*	2.1678	19	19
2578.190898	0.6332	18	18
2578.448148	0.8889	17	17
2578.935990	0.5212	15	15
2579.166330	0.4518	14	14
2579.384668	1.1436	13	13
2579.594248	0.0576	12	12
2579.790677	0.2355	11	11
2579.973344	0.0118	10	10
2580.142666	0.4191	9	9
2580.296509	0.1319	8	8
2580.434984	0.0927	7	7
2580.557818	0.0671	6	6
2580.663837	0.0368	5	5
2580.824294	0.4508	3	3
2580.878810	0.0088	2	2
2580.915258	0.2654	1	1

THE RMS DEV = 0.000501 FOR 18 LINES

Table 170

11(1E)0-02(0)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2529.239556	1.0900	16	17
2532.486653	0.4132	15	16
2535.713857*	1.3313	14	15
2538.915929	0.0267	13	14
2542.093472*	2.6312	12	13
2545.252919	0.8443	11	12
2548.381174*	1.6374	10	11
2551.486969	0.3958	9	10
2554.565425	0.5764	8	9
2557.614596	0.1526	7	8
2560.635009	0.3920	6	7
2563.627822	0.7755	5	6
2566.589104	0.3243	4	5
2569.519459	0.6178	3	4
2572.421059	0.5680	2	3
2575.288427*	1.2246	1	2
2583.706658	0.4076	1	0
2586.448614	0.4355	2	1
2589.159147	0.0642	3	2
2591.837695	0.4386	4	3
2594.484182	0.4436	5	4
2597.098793	0.0191	6	5
2599.682235	0.4497	7	6
2602.235863	0.0069	8	7
2604.758859	0.0548	9	8
2607.252426	0.3885	10	9
2609.716220	0.0269	11	10
2612.151865	0.1002	12	11
2614.559676	0.4394	13	12
2616.941395	0.0727	14	13
2619.296566	0.3362	15	14
2621.627310	0.0381	16	15
2623.933322	0.4518	17	16
2626.217086	0.0907	18	17
2628.478497	0.0734	19	18
2630.719306	0.3340	20	19
2632.938931	0.4560	21	20
2635.140588	0.2077	22	21
2637.323399	0.7390	23	22
2639.490066	0.2337	24	23
2641.641152	1.0513	25	24
2643.774185	0.0984	26	25
2645.894627	1.1210	27	26
2648.000962*	2.6265	28	27
2650.092565*	3.3192	29	28
2652.167438	0.8210	30	29
2654.228888*	1.8504	31	30

THE RMS DEV = 0.000495 FOR 40 LINES

Table 171

11(1F)0-02(2E)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2565.679353	0.7246	2	2
2565.563032*	1.8758	4	4
2565.476145	0.3686	5	5
2565.374193	0.0584	6	6
2565.252877	0.7017	7	7
2565.117796*	3.4625	8	8
2564.956064	0.2511	9	9
2564.777547	0.1836	10	10
2564.577929	0.3335	11	11
2564.114973	0.0684	13	13
2563.849411	0.5059	14	14
2563.559223	0.4396	15	15
2563.243612	0.0497	16	16
2562.902604	0.3691	17	17
2562.137510	0.3089	19	19
2561.713405*	1.9284	20	20
2561.255176	0.4626	21	21
2560.769348	0.5867	22	22
2559.698821	0.3517	24	24

THE RMS DEV = 0.000413 FOR 16 LINES

Table 172

11(1E)0-02(2F)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2565.631618*	5.7517	2	2
2565.544568*	1.5719	3	3
2565.424557	0.0450	4	4
2565.273405	0.9098	5	5
2565.089663	0.4368	6	6
2564.877410	0.0689	7	7
2564.634053	0.1827	8	8
2564.056669	0.3922	10	10
2563.723475	0.4381	11	11
2563.358751	0.0043	12	12
2562.964047	0.1977	13	13
2562.084607	0.0546	15	15
2561.599479	0.1778	16	16
2561.084916	0.3566	17	17
2560.539654	0.2430	18	18
2559.964270	0.0187	19	19
2559.361913*	2.7846	20	20
2558.722767*	1.3202	21	21
2558.058373	0.8053	22	22
2557.363221*	1.2320	23	23

THE RMS DEV = 0.000393 FOR 15 LINES

Table 173

11(1E)0-02(2E)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2520.336363	0.5227	14	15
2523.597862	1.0669	13	14
2526.825017	0.1784	12	13
2530.016616	1.1228	11	12
2533.169668	0.9643	10	11
2536.290438	0.9341	9	10
2539.378673	0.2583	8	9
2542.431738	0.6621	7	8
2545.454312	0.4088	6	7
2548.443615	0.1843	5	6
2551.402007	0.5875	4	5
2554.327757	0.4790	3	4
2557.224418	0.2425	2	3
2560.086965*	2.4959	1	2
2573.958682	0.2100	3	2
2576.640067	0.8738	4	3
2579.291784	0.1135	5	4
2581.909716*	1.6976	6	5
2587.055053	0.6809	8	7
2589.577526	0.7651	9	8
2592.065685	0.0814	10	9
2594.519845	0.3553	11	10
2596.938647	1.1391	12	11
2599.323272	0.2620	13	12
2601.670778	0.2180	14	13
2603.980096	0.1670	15	14
2606.249959	0.7037	16	15
2608.480779	0.9702	17	16
2610.671750	0.4028	18	17
2612.819441*	1.3859	19	18
2614.926204	0.5232	20	19

THE RMS DEV = 0.000631 FOR 27 LINES

Table 174

11(1F)0-02(2F)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2512.770283	0.7900	17	18
2515.848522*	2.1497	16	17
2518.906990	0.7877	15	16
2521.952070*	1.5674	14	15
2524.983241	0.6392	13	14
2527.999987*	1.5518	12	13
2530.997040	0.1917	11	12
2533.979649	0.5510	10	11
2536.946427	0.8436	9	10
2539.898485	0.1106	8	9
2542.832265	1.1775	7	8
2545.751336	1.0709	6	7
2548.655681	0.4812	5	6
2551.541514	0.2395	4	5
2554.412312	0.3107	3	4
2557.265378	0.4983	2	3
2560.104875*	1.5623	1	2
2576.781364*	2.3033	4	3
2579.499927	0.3204	5	4
2582.203938	0.7389	6	5
2584.890281	0.5053	7	6
2587.559316	0.0415	8	7
2590.211858	0.2241	9	8
2592.846414	0.3789	10	9
2595.464646	0.0450	11	10
2598.064514	0.7540	12	11
2600.648499	0.0345	13	12
2603.213859	0.3621	14	13
2605.762963	0.4835	15	14
2608.293055	0.1265	16	15
2610.806271	0.0012	17	16
2613.302113	0.4258	18	17
2615.780006	0.6283	19	18
2618.239078	0.2073	20	19
2620.681392	0.0368	21	20
2623.104457	1.0756	22	21
2625.498547*	3.2170	23	22

THE RMS DEV = 0.000560 FOR 31 LINES

Table 175

14(4)0-04(4)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
3147.169537	0.5204	22	23
3150.344450	1.0972	21	22
3153.500820	0.0995	20	21
3156.641847	0.8425	19	20
3159.770829*	2.2334	18	19
3162.880652*	2.0807	17	18
3165.973471	0.9194	16	17
3169.050730	0.2575	15	16
3172.113177	0.9058	14	15
3175.157639	0.2469	13	14
3178.187432	0.1753	12	13
3181.199870	0.4540	11	12
3184.197825	0.7944	10	11
3187.177491	0.1715	9	10
3190.140214	0.9217	8	9
3193.088506	0.0804	7	8
3196.019338	0.2014	6	7
3198.934024	0.8063	5	6
3201.832510*	1.8907	4	5
3235.282439	0.0816	7	6
3237.957916	1.1638	8	7
3243.260902	0.0511	10	9
3245.885730	0.1193	11	10
3251.083778	0.1830	13	12
3256.212383	0.3843	15	14
3258.750535	0.6065	16	15

THE RMS DEV = 0.000603 FOR 22 LINES

Table 176

14(0)0-04(0)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
3160.679250*	1.9585	18	19
3166.843847	0.6918	16	17
3169.915392*	9.6290	15	16
3175.985089	0.9396	13	14
3179.000147*	1.3708	12	13
3182.003673	0.7364	11	12
3184.993576	0.7494	10	11
3187.968293*	1.5640	9	10
3190.926101	0.0642	8	9
3193.870231	0.4026	7	8
3196.800767	0.3958	6	7
3199.722566*	7.4931	5	6
3202.613066*	1.4719	4	5
3205.498555	0.0099	3	4
3208.366352	0.5021	2	3
3225.234171*	2.5459	3	2
3227.982440	0.4208	4	3
3230.714143	0.0988	5	4
3233.424505*	3.4147	6	5
3241.436708*	7.1237	9	8
3244.072353*	7.1253	10	9
3246.704376	0.3074	11	10
3256.957183*	1.9211	15	14
3261.951476	0.5247	17	16
3264.418832	0.6834	18	17

THE RMS DEV = 0.000539 FOR 13 LINES

Table 177

14(2)0-04(2)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
3199.514710	0.7198	5	6
3202.416329	0.1257	4	5
3205.302232	0.2044	3	4
3208.170681	0.0294	2	3
3225.032199*	3.2945	3	2
3227.778725	1.1294	4	3
3230.514686	0.5709	5	4

THE RMS DEV = 0.000603 FOR 5 LINES

Table 178

14(2E)0-04(2E)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
3163.303612	0.3101	17	18
3172.587475	0.7874	14	15
3175.647917	0.3474	13	14
3178.693881*	2.5006	12	13
3181.717158	0.7860	11	12
3184.726061	1.0638	10	11
3187.719795	0.9676	9	10
3190.691640*	1.3534	8	9
3193.646771*	2.8284	7	8

THE RMS DEV = 0.000766 FOR 5 LINES

Table 179

14(2F)0-04(2F)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
3166.548247	0.0293	16	17
3169.626220*	1.7010	15	16
3172.685631	0.4403	14	15
3175.729420	0.7566	13	14
3178.759530	0.1118	12	13
3181.762716*	0.1378	11	12
3184.768419*	2.0010	10	11
3187.752073	0.0225	9	10
3190.715694*	1.9821	8	9

THE RMS DEV = 0.000395 FOR 5 LINES

Table 180

05(1F)0-02(0)0 TGHCBGS

observed	10^3(o-c)	J′	J″
2065.258987*	1.5071	5	5
2066.138915	0.6834	8	8
2067.391043	0.1859	11	11
2067.889944	0.3971	12	12
2069.007266	0.8065	14	14

THE RMS DEV = 0.000572 FOR 4 LINES

Table 181

05(1E)0-02(0)0 TGHCBGS

observed	10^3(o-c)	J′	J″
1994.614585	0.6380	24	25
1997.391334	0.5076	23	24
2000.173059*	1.6947	22	23
2002.955110	0.3054	21	22
2005.743026	0.2320	20	21
2008.533167	0.1119	19	20
2011.326514	0.1091	18	19
2014.122857	0.2963	17	18
2016.921316	0.5001	16	17
2019.720923	0.1875	15	16
2022.522719	0.4528	14	15
2025.326691	0.0461	13	14
2028.131358	0.2015	12	13
2030.938252	0.8422	11	12
2033.742480*	1.5983	10	11
2036.550904	0.4713	9	10
2039.363709*	4.5797	8	9
2042.166454	0.7311	7	8
2044.975163	0.2388	6	7
2050.592376	0.5753	4	5
2053.399821	0.0820	3	4
2056.208028	0.6847	2	3
2075.840803	0.5255	4	3
2078.635643*	4.6972	5	4
2084.235121	0.3055	7	6
2089.822355	0.4595	9	8
2092.618056*	4.7516	10	9
2095.401663	0.1347	11	10
2098.187558	0.1364	12	11
2100.970622	0.3283	13	12
2103.753983*	1.8690	14	13
2106.530385	0.5615	15	14
2109.309836*	2.3180	16	15
2112.083296*	1.3646	17	16
2114.853690	0.6308	18	17
2117.624888	0.0420	19	18
2120.392937	0.7480	20	19
2123.160942	0.0855	21	20
2125.927515	0.4509	22	21
2128.691452	0.5253	23	22
2131.454304*	1.6278	24	23
2134.212476*	6.5885	25	24
2136.982788*	1.3116	26	25
2139.743526	0.3002	27	26

THE RMS DEV = 0.000439 FOR 32 LINES

Table 182

05(3)0-02(2)0 TGHCBGS

observed	10^3(o-c)	J′	J″
2053.009377*	3.8560	9	10
2058.304845*	1.4993	7	8
2088.744902	0.5319	3	2
2091.622328*	2.8455	4	3
2097.434445*	6.8850	6	5
2100.378586	0.7406	7	6
2103.329215*	4.1940	8	7

THE RMS DEV = 0.000645 FOR 2 LINES

Table 183

05(3E)0-02(2E)0 TGHCBGS

observed	10^3(o-c)	J′	J″
2032.502827	0.0019	17	18
2035.013788	0.2049	16	17
2037.538200	0.1688	15	16
2040.079061*	1.2374	14	15
2042.633887*	1.3464	13	14
2045.203291	0.2245	12	13
2053.009377*	4.8272	9	10
2058.304845*	3.5744	7	8
2088.744902	0.4942	3	2
2091.622328*	2.6553	4	3
2097.434445*	5.5241	6	5
2100.378586*	3.4977	7	6
2103.329215	0.8387	8	7
2106.299183	0.4099	9	8
2109.287923	0.5267	10	9
2112.292935*	1.6695	11	10
2118.357739	0.5933	13	12
2121.412080	0.4632	14	13
2124.483060	0.1961	15	14
2127.567621	1.0026	16	15
2130.667395	0.5235	17	16
2133.785219*	4.8681	18	17
2136.905075	0.0029	19	18
2140.041564	0.3824	20	19
2143.188300	0.5655	21	20
2146.342843	0.9076	22	21

THE RMS DEV = 0.000525 FOR 16 LINES

Table 184

05(3F)0-02(2F)0 TGHCBGS

observed	10^3(o-c)	J′	J″
2021.315529*	1.7753	22	23
2025.851474*	3.2486	20	21
2030.526832*	1.7017	18	19
2032.918919	0.4315	17	18
2037.793243	0.0911	15	16
2040.272924	0.0660	14	15
2042.779791	0.1682	13	14
2045.311715	0.1463	12	13
2047.873651*	5.0003	11	12
2100.378586*	2.0163	7	6
2106.316828	0.2030	9	8
2109.309836*	5.8147	10	9
2112.335751	0.3589	11	10
2115.378800	0.1057	12	11
2118.443465	0.7420	13	12
2121.532603	0.9707	14	13
2124.646567*	1.2866	15	14
2127.786827*	1.4242	16	15
2130.955727	0.4003	17	16
2134.151898	1.1109	18	17
2137.381015	0.4174	19	18
2140.641099	0.3253	20	19
2143.935292	0.3050	21	20
2147.265721*	1.5799	22	21

THE RMS DEV = 0.000496 FOR 15 LINES

Table 185

11(1F)1-01(1F)1 TGHCNBKS

observed	10^3(o-c)	J′	J″
3202.099347	0.2498	19	20
3208.292630	0.2922	17	18
3211.365898	0.6042	16	17
3232.412434	0.0421	9	10
3235.352551	0.1466	8	9
3238.276223	0.0200	7	8
3241.183064	0.2214	6	7
3244.072353	0.1989	5	6
3249.801021	0.1025	3	4
3282.714385	0.0395	8	7
3285.341531	0.8578	9	8
3290.544271	0.0785	11	10
3293.118849	0.6328	12	11
3295.672428*	1.4940	13	12

THE RMS DEV = 0.000370 FOR 13 LINES

Table 186

11(1E)1-01(1E)1 TGHCNBKS

observed	10^3(o-c)	J′	J″
3202.274640	0.5492	19	20
3205.376247	0.1730	18	19
3208.459775	0.4838	17	18
3211.527734	0.0489	16	17
3214.578700	0.4071	15	16
3217.612799	0.7750	14	15
3235.466938*	0.3045	8	9
3247.008921	1.0650	4	5
3279.960502	0.5249	7	6
3282.590104	0.4485	8	7
3285.198853	1.0582	9	8
3287.791790	0.0610	10	9
3292.919191	0.6014	12	11

THE RMS DEV = 0.000608 FOR 11 LINES

Table 187

10(0)1-00(0)1 HCNBJS HCNBKS

observed	10^3(o-c)	J′	J″
3185.658037	1.0297	30	31
3188.943813	0.5032	29	30
3192.213547	0.0119	28	29
3198.703719	0.1286	26	27
3201.924257	0.0245	25	26
3205.128789	0.1352	24	25
3208.316587	0.0471	23	24
3211.487101	1.0526	22	23
3214.642186	0.9547	21	22
3217.782036	0.5102	20	21
3220.904229	0.9901	19	20
3224.008338	0.1271	18	19
3227.096380	0.0073	17	18

Table 187 continued

10(0)1-00(0)1 HCNBJS HCNBKS

observed	10^3(o-c)	J′	J″
3230.167452	0.2038	16	17
3233.222519	0.5268	15	16
3236.260009	0.6953	14	15
3245.268222	0.2932	11	12
3248.237246	0.1408	10	11
3251.188121	0.2247	9	10
3254.121479	0.6922	8	9
3257.038573	0.0571	7	8
3259.937202	0.1124	6	7
3262.817517	0.9849	5	6
3268.526755	1.0307	3	4
3271.355600	0.1536	2	3
3274.166548	0.6940	1	2
3276.958044	0.0208	0	1
3282.487982	0.3347	1	0
3285.227242	0.9260	2	1
3287.946892	0.7581	3	2
3293.331381	0.4017	5	4
3295.996092	0.2078	6	5
3298.642376	0.0130	7	6
3301.270757	0.4020	8	7
3303.879805	0.0046	9	8
3306.470531	0.1083	10	9
3309.042461	0.3516	11	10
3311.596045	0.2162	12	11
3324.080245	0.3519	17	16
3326.514979*	5.5015	18	17
3328.941436	0.1983	19	18
3331.342413	0.3994	20	19
3333.725035	0.1144	21	20
3336.088306	0.1120	22	21
3338.431567	0.3245	23	22
3340.756661	0.4728	24	23
3343.061055	0.0245	25	24
3345.347255	0.8896	26	25
3345.346359	0.0062	26	25
3347.612338	0.1974	27	26
3349.858522	0.2182	28	27
3352.085210	0.4062	29	28
3356.478253	0.3595	31	30
3349.857788	0.5158	28	27

THE RMS DEV = 0.000492 FOR 52 LINES

Table 188

04(0)1-02(0)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
3340.688035	0.0329	18	19
3343.716296	0.3313	17	18
3349.706045	0.8044	15	16
3352.669050	0.1690	14	15
3358.541240	0.3675	12	13
3364.348354	0.5548	10	11
3370.104657	0.0661	8	9
3372.966285	0.1575	7	8
3375.818124	0.2204	6	7
3378.662184	0.0469	5	6
3381.498394	0.2304	4	5
3384.327810	0.3936	3	4
3387.151606	0.1207	2	3
3389.969052	0.2295	1	2
3398.386525	0.2884	1	0
3401.179937	0.1069	2	1
3403.967252	0.0424	3	2
3406.747223	0.1218	4	3
3409.519056	0.1330	5	4
3412.281575	0.1422	6	5
3415.034031	0.3378	7	6
3420.498807*	5.2359	9	8
3423.218273	0.1382	10	9
3425.916330	0.0670	11	10
3428.596742	0.0075	12	11
3431.257779	0.0460	13	12
3433.897817	0.0061	14	13
3436.514989	0.0875	15	14
3439.108146	0.1032	16	15
3441.675271	0.0643	17	16
3444.215314	0.4516	18	17
3446.728283	0.0919	19	18
3449.212728	0.2747	20	19
3451.667441	0.1043	21	20
3454.092582	0.8595	22	21
3456.490044	0.1126	23	22
3461.196954	0.0733	25	24
3463.508745	0.7245	26	25
3465.791241	0.1846	27	26

THE RMS DEV = 0.000304 FOR 37 LINES

Table 189

04(2)1-02(2)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
3372.715646	0.0405	7	8
3375.557521	0.0580	6	7
3378.394350	0.3657	5	6
3381.227013	0.0168	4	5
3384.053931	0.1891	3	4
3386.875416	0.3355	2	3
3406.465525	0.0808	4	3
3409.241117	0.0356	5	4
3412.016838*	5.2237	6	5
3414.777617	0.5105	7	6

THE RMS DEV = 0.000249 FOR 9 LINES

Table 190

04(2E)1-02(2E)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
3347.207729	0.2619	16	17
3350.025979	0.0347	15	16
3352.851256	0.0063	14	15
3355.681750	0.4436	13	14
3358.517800	0.0612	12	13
3361.356855	0.1558	11	12
3364.197355	0.5008	10	11
3367.039805	0.1925	9	10
3369.881970	0.0142	8	9
3372.723738	1.1046	7	8
3414.790247	0.9448	7	6
3417.557945	0.0318	8	7
3420.325281	0.1052	9	8
3423.092738	0.0890	10	9
3425.861223	0.1833	11	10
3428.632131	0.1984	12	11
3431.406981	0.1822	13	12
3434.185756	0.2133	14	13
3436.970627	0.2740	15	14
3439.762468	0.0396	16	15
3442.561164	0.3454	17	16
3451.006123	0.2232	20	19
3453.836580	0.3878	21	20
3456.675023	0.4664	22	21
3459.518019	0.1504	23	22
3462.367270	0.6517	24	23
3470.925926	0.2351	27	26

THE RMS DEV = 0.000384 FOR 27 LINES

Table 191

04(2F)1-02(2F)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
3338.016144	0.7447	19	20
3340.952373	0.2832	18	19
3349.706045	0.3478	15	16
3352.607642	0.3138	14	15
3355.500306	0.0157	13	14
3361.263973	0.1529	11	12
3364.134959	0.0390	10	11
3366.999284	0.0157	9	10
3369.857111	0.0219	8	9
3372.707553	1.0245	7	8
3414.764987	0.0763	7	6
3417.518068	0.0788	8	7
3420.263840	0.2086	9	8
3423.001477	0.0357	10	9
3425.731228	0.0513	11	10
3428.452490	0.0579	12	11
3431.164833	0.0729	13	12
3433.867851	0.0608	14	13
3436.561004	0.0906	15	14
3439.244201	0.2463	16	15
3441.916106	0.1423	17	16
3444.576438	0.1270	18	17
3449.861832	0.6507	20	19
3452.483181	0.7667	21	20
3455.092767	0.0447	22	21
3457.686682	0.4051	23	22
3460.266182	0.1164	24	23

THE RMS DEV = 0.000350 FOR 27 LINES

Table 192

03(1E)0-01(1E)0 TGHCAXS

observed	10^3(o-c)	J′	J″
1309.238670*	1.2659	28	29
1319.961129	0.8588	24	25
1322.642157	0.8523	23	24
1325.326889	0.2778	22	23
1328.013019	0.0428	21	22
1330.701208	0.1886	20	21
1333.391548	0.1809	19	20
1336.084321	0.1128	18	19
1338.780642	0.0950	17	18
1341.479890	0.1400	16	17
1344.183262	0.0615	15	16
1346.890952	0.5851	14	15
1349.601591	0.2363	13	14
1352.317906	0.0393	12	13
1355.038952	0.1975	11	12
1357.764760	0.0170	10	11
1360.495386	0.6792	9	10
1363.233014	0.0808	8	9
1365.975548	0.0120	7	8
1368.723979	0.0597	6	7
1374.239258	0.0174	4	5
1377.006122	0.0851	3	4
1393.740004	0.1400	2	1
1396.550610	0.2397	3	2
1399.366843	0.1140	4	3
1402.188632	0.1255	5	4
1405.016116	0.1292	6	5
1407.849182	0.2289	7	6
1410.686680	0.0642	8	7
1413.528569	0.3732	9	8
1416.375225	0.3924	10	9
1419.226576	0.2724	11	10
1422.080775	0.1333	12	11
1427.798607	0.1378	14	13
1430.661348	0.3560	15	14
1433.526599	0.1089	16	15
1436.393177	0.1452	17	16
1439.260991	0.1131	18	17
1442.129259	0.3456	19	18
1444.998408	0.0369	20	19
1453.601305	0.4283	23	22
1456.467628	0.5834	24	23
1459.329783	0.6004	25	24
1462.190380	0.9427	26	25
1465.049725	0.2791	27	26
1470.755731	0.0877	29	28

THE RMS DEV = 0.000344 FOR 45 LINES

Table 193

03(1F)0-01(1F)0 TGHCAXS

observed	10^3(o-c)	J′	J″
1311.957484*	1.2218	29	30
1314.308804	0.7738	28	29
1316.664028	0.7890	27	28
1321.390205	0.2094	25	26
1323.764550	0.1843	24	25
1326.148001	0.1894	23	24
1328.541519	0.0211	22	23
1330.946603	0.0717	21	22
1333.363783	0.4735	20	21
1335.794197	1.0492	19	20
1340.700723	0.1854	17	18
1343.176972	0.1561	16	17
1345.670353	0.4955	15	16
1348.179358	0.3463	14	15
1358.399491	0.9052	10	11
1361.002724	0.2432	9	10
1366.267390	0.1676	7	8
1368.929122	0.2511	6	7
1371.611671	0.1140	5	6
1377.038099	0.1929	3	4
1393.809502	0.2017	2	1
1399.563076	0.4140	4	3
1402.470324	0.0332	5	4
1405.397080	0.1695	6	5
1408.342981	0.0983	7	6
1411.307623	0.3467	8	7
1414.290857	0.9723	9	8
1417.294159	0.0804	10	9
1420.314012	0.2799	11	10
1423.351157	0.8425	12	11
1432.565240	0.5786	15	14
1441.913028	0.0540	18	17
1445.055269	0.3600	19	18
1448.209593	0.4620	20	19
1451.374981	0.2593	21	20
1454.549621	0.4746	22	21
1457.733315	0.1368	23	22
1464.119440	1.1366	25	24
1467.320880	0.7121	26	25
1470.526058	0.4543	27	26
1476.936032	0.2001	29	28
1483.338930	0.1030	31	30

THE RMS DEV = 0.000476 FOR 40 LINES

Table 194

13(3)0-03(3)0 HCNBKS HCNBJS HCNBIS

observed	10^3(o-c)	J′	J″
3233.914256	0.5157	13	13
3234.139000	0.2512	12	12
3234.346421	0.1327	11	11
3235.003682	0.0939	7	7
3235.124761	0.0455	6	6
3235.228604	0.0416	5	5
3235.315188	0.0703	4	4
3235.384338	0.0346	3	3
3166.589574	0.1302	22	23
3169.767035	0.1610	21	22
3176.075602*	1.3222	19	20
3179.203519	0.0488	18	19
3182.316388	0.0525	17	18
3185.412835	0.0256	16	17
3191.556312	0.0147	14	15
3194.603335	0.0893	13	14
3197.633546	0.0219	12	13
3200.647172	0.0686	11	12
3203.643928	0.0015	10	11
3206.623700	0.2376	9	10
3209.587089	0.0062	8	9
3212.533297	0.0124	7	8
3215.462453	0.1134	6	7
3218.374760	0.0444	5	6
3221.269867	0.1086	4	5
3224.147901	0.1329	3	4
3246.551715	0.2586	4	3
3249.273943	0.2388	5	4
3259.987737	0.0823	9	8
3262.622656	0.3904	10	9
3265.239314	0.0274	11	10
3267.838555	0.1471	12	11
3270.420534	0.0351	13	12
3272.987164*	2.4979	14	13
3280.571191	0.1303	17	16
3283.064283	0.6324	18	17

THE RMS DEV = 0.000192 FOR 33 LINES

Table 195

13(3E)0-03(3E)0 HCNBKS HCNBJS HCNBIS

observed	10^3(o-c)	J′	J″
3143.921559	0.3334	29	30
3147.207008	0.5409	28	29
3150.478071	0.1971	27	28
3153.732544	0.2353	26	27
3156.972813	0.6353	25	26
3160.196598	0.6173	24	25
3285.537615*	2.1420	19	18
3287.987607*	4.5131	20	19
3290.429792	0.9545	21	20
3299.996408*	7.5170	25	24
3302.351910	0.3303	26	25
3304.681827	0.9831	27	26

THE RMS DEV = 0.000603 FOR 9 LINES

Table 196

13(3F)0-03(3F)0 HCNBKS HCNBJS HCNBIS

observed	10^3(o-c)	J′	J″
3143.880503*	1.5446	29	30
3147.169537	0.4769	28	29
3150.445245	0.0731	27	28
3153.704400	0.3738	26	27
3156.948754	0.4618	25	26
3160.175544	0.2472	24	25
3163.384982*	2.2143	23	24
3285.554277*	8.0160	19	18
3288.007787*	1.5433	20	19
3290.449566	0.5738	21	20
3292.874350	0.2334	22	21
3302.407461	0.2760	26	25
3304.746343*	2.0491	27	26

THE RMS DEV = 0.000372 FOR 8 LINES

Table 197

13(1F)0-03(1F)0 HCNBKS HCNBJS

observed	10^3(o-c)	J′	J″
3144.097948	0.1972	29	30
3147.376136	0.2782	28	29
3150.640526	0.0466	27	28
3153.890027	0.1177	26	27
3157.124613	0.0462	25	26

Table 197 continued

13(1F)0-03(1F)0 HCNBKS HCNBJS

observed	10^3(o-c)	J′	J″
3160.345208	0.5307	24	25
3163.549676	0.2287	23	24
3166.740481	0.2031	22	23
3169.915392	0.3360	21	22
3173.076350	0.1672	20	21
3176.221711	0.1444	19	20
3179.351768	0.0331	18	19
3182.467001	0.1944	17	18
3185.566635	0.1340	16	17
3188.650986	0.1846	15	16
3191.719100	0.5237	14	15
3194.773022	0.1386	13	14
3197.810640	0.1453	12	13
3200.832566	0.1943	11	12
3203.838302	0.1260	10	11
3206.828587	0.0101	9	10
3209.802720	0.0104	8	9
3212.760738	0.0631	7	8
3215.702822	0.1216	6	7
3218.628183	0.1559	5	6
3221.537488	0.1390	4	5
3224.430336	0.1379	3	4
3227.306641	0.1468	2	3
3230.167394	0.9181	1	2
3241.436708	0.3567	2	1
3244.212269	0.0892	3	2
3246.970212	0.1337	4	3
3249.710737	0.0829	5	4
3252.433909	0.1110	6	5
3255.140624*	1.2262	7	6
3263.149812	0.0592	10	9
3265.783904	0.0710	11	10
3270.997702	0.0741	13	12
3276.137625	0.1286	15	14
3278.679623	0.0480	16	15
3286.191632	0.5376	19	18
3288.656037	0.1398	20	19
3291.101551	0.0161	21	20
3293.526727	0.3279	22	21
3295.932323	0.0987	23	22
3298.317203	0.2392	24	23
3305.347480	0.6222	27	26
3309.929705	0.4976	29	28
3312.185716*	1.5713	30	29

THE RMS DEV = 0.000269 FOR 47 LINES

Table 198

13(1E)0-03(1E)0 HCNBKS HCNBJS

observed	10^3(o-c)	J′	J″
3147.874462	0.5007	28	29
3151.135064	0.5556	27	28
3154.378734	0.3367	26	27
3157.606346	0.2291	25	26
3160.819179	0.1908	24	25
3164.015498	0.0848	23	24
3167.196243	0.0633	22	23
3173.509953	0.0266	20	21
3176.642612	0.1035	19	20
3179.759384	0.0340	18	19
3182.862889*	2.9109	17	18
3185.944294	0.0444	16	17
3189.012829	0.3880	15	16
3195.099647	0.0176	13	14
3198.118593	0.0035	12	13
3201.121008	0.0315	11	12
3204.108716*	1.8044	10	11
3207.076007	0.1280	9	10
3210.028780	0.1426	8	9
3212.964273	0.0705	7	8
3215.882883	0.2934	6	7
3218.784876	0.1803	5	6
3221.669803	0.0985	4	5
3224.537467	0.1611	3	4
3227.387980	0.1699	2	3
3230.221269	0.1098	1	2
3241.379548	0.0060	2	1
3244.124941	0.0162	3	2
3246.852545	0.0929	4	3
3249.562140	0.1139	5	4
3252.253636	0.0875	6	5
3262.838168*	1.0181	10	9
3265.436787	0.1512	11	10
3268.018670	0.5811	12	11
3270.580359	0.1485	13	12
3275.648609	0.1730	15	14
3280.640920	0.1320	17	16
3283.108384	0.0916	18	17
3285.554277*	2.3757	19	18
3287.987607*	2.0981	20	19
3290.394979	0.0061	21	20
3304.447825*	6.7748	27	26
3306.712468	0.6487	28	27

THE RMS DEV = 0.000236 FOR 37 LINES

Table 199

12(0)0-02(0)0 HCNBKS observed	10^3(o-c)	HCNBJS J′	HCNBIS J″
3136.603274	0.1482	37	38
3140.008703	0.4316	36	37
3143.398027	0.1478	35	36
3146.771231	0.6451	34	35
3150.129993	0.2021	33	34
3153.472728	0.0476	32	33
3156.799673	0.1083	31	32
3160.110422	0.0951	30	31
3163.405311	0.2857	29	30
3166.684763	0.0129	28	29
3169.948056	0.0201	27	28
3173.195402	0.0363	26	27
3176.426796	0.0339	25	26
3179.642267	0.0397	24	25
3182.841692	0.0762	23	24
3186.025456	0.0621	22	23
3189.193206	0.0927	21	22
3192.345020	0.0865	20	21
3195.480979	0.1217	19	20
3198.600998	0.1165	18	19
3201.706818*	1.8228	17	18
3204.793296	0.1174	16	17
3207.865683	0.2809	15	16
3210.921714	0.0878	14	15
3213.961974	0.1731	13	14
3216.985896	0.0294	12	13
3219.993827	0.0728	11	12
3222.985423	0.0371	10	11
3225.960707	0.0314	9	10
3228.919536	0.0057	8	9
3231.861817	0.0333	7	8
3234.787478	0.0521	6	7
3237.696364	0.0950	5	6
3240.588411	0.1103	4	5
3243.463477	0.1203	3	4
3246.321439	0.1238	2	3
3249.162203	0.0869	1	2
3251.985527	0.1198	0	1
3260.349931	0.1904	2	1
3263.102626	0.0227	3	2
3265.837136	0.1378	4	3
3268.553299	0.1480	5	4
3271.253579*	2.6760	6	5
3273.930187	0.0953	7	6
3276.590631	0.0793	8	7
3279.232849	0.7341	9	8
3284.457725	0.1476	11	10
3287.041679	0.0496	12	11
3289.607966*	1.9519	13	12
3292.150458	0.1102	14	13
3294.675119	0.1190	15	14
3297.179778	0.1026	16	15
3299.664512	0.1461	17	16

Table 199 continued

12(0)0-02(0)0 HCNBKS observed	10^3(o-c)	HCNBJS J′	HCNBIS J″
3302.128903	0.3237	18	17
3304.572222	0.2022	19	18
3306.995689	0.1355	20	19
3309.398632	0.0932	21	20
3311.781197	0.1033	22	21
3314.141620*	1.2991	23	22
3318.804885	0.1168	25	24
3321.105325	0.0087	26	25
3325.644810	0.0560	28	27
3330.103422	0.0619	30	29
3336.640232	0.1635	33	32
3338.779067	0.3952	34	33
3340.898951	0.3186	35	34
3160.111502	0.9848	30	31
3163.405081	0.5157	29	30
3166.684895	0.1190	28	29
3169.947786	0.2498	27	28
3173.195398	0.0323	26	27
3176.426541	0.2210	25	26
3179.642193	0.0342	24	25
3182.841662	0.1062	23	24
3186.025555	0.1611	22	23
3189.193087	0.0262	21	22
3192.344941	0.0075	20	21
3195.480945	0.0877	19	20
3198.600884	0.0025	18	19
3204.793228	0.0494	16	17
3207.865464	0.0619	15	16
3210.921655	0.0288	14	15
3213.961835	0.0341	13	14
3216.985891	0.0244	12	13
3219.993763	0.0088	11	12
3222.985364	0.0218	10	11
3225.960676	0.0004	9	10
3228.919520	0.0102	8	9
3231.861828	0.0223	7	8
3234.787481	0.0491	6	7
3237.696389	0.0700	5	6
3240.588433	0.0883	4	5
3243.463502	0.0953	3	4
3246.321476	0.0868	2	3
3249.162153	0.1369	1	2
3251.985494	0.1528	0	1
3260.350174	0.0525	2	1
3263.102628	0.0247	3	2
3265.837066	0.0678	4	3
3268.553203	0.0520	5	4
3273.930106	0.0143	7	6
3276.590565	0.0133	8	7
3279.232297	0.1821	9	8
3284.457852	0.0206	11	10
3287.041645	0.0836	12	11
3289.606444	0.4299	13	12

Table 199 continued

12(0)0-02(0)0 HCNBKS observed	HCNBJS 10^3(o-c)	HCNBIS J′	J″
3292.150495	0.0732	14	13
3294.675149	0.0890	15	14
3297.179786	0.0946	16	15
3299.664345	0.0208	17	16
3302.128998	0.4187	18	17
3304.572330	0.0942	19	18
3306.995726	0.0985	20	19
3309.398637	0.0882	21	20
3311.781104	0.0103	22	21
3318.804906	0.0958	25	24
3182.841995	0.2267	23	24
3186.025401	0.0071	22	23
3189.193242	0.1287	21	22
3192.344497	0.4364	20	21
3195.480749	0.1082	19	20
3198.601017	0.1355	18	19
3204.793108	0.0705	16	17
3207.865422	0.0199	15	16
3210.921500	0.1261	14	15
3213.961631	0.1698	13	14
3216.985795	0.0715	12	13
3219.993560	0.1941	11	12
3222.985372	0.0138	10	11
3225.960650	0.0255	9	10
3228.919534	0.0037	8	9
3231.861843	0.0073	7	8
3234.787464	0.0661	6	7
3237.696414	0.0450	5	6
3240.588464	0.0573	4	5
3243.463518	0.0793	3	4
3246.321521	0.0418	2	3
3249.162437	0.1470	1	2
3251.985811	0.1641	0	1
3260.350046	0.0754	2	1
3263.102610	0.0067	3	2
3265.836930	0.0681	4	3
3268.553207	0.0560	5	4
3273.930053	0.0386	7	6
3276.590476	0.0756	8	7
3279.232278	0.1631	9	8
3284.457841	0.0316	11	10
3287.041728	0.0006	12	11
3289.606231	0.2169	13	12
3292.150446	0.1222	14	13
3294.675177	0.0610	15	14
3297.179762	0.1186	16	15
3299.664329	0.0368	17	16
3304.572608	0.1837	19	18
3306.995656	0.1685	20	19
3309.399091	0.3657	21	20
3311.780900	0.1936	22	21

THE RMS DEV = 0.000182 FOR 153 LINES

Table 200

12(2)0-02(2)0 HCNBKS observed	HCNBJS 10^3(o-c)	HCNBIS J′	J″
3219.839284	0.0371	11	12
3222.836002	0.1067	10	11
3225.822898*	7.6761	9	10
3281.716674	0.0032	10	9
3284.325450	0.0456	11	10
3228.777316	0.0693	8	9
3231.721935	0.0162	7	8
3234.649111	0.0797	6	7
3237.559038	0.0200	5	6
3240.451411	0.0526	4	5
3243.326233	0.0603	3	4
3246.183674	0.2502	2	3
3262.956414	0.1018	3	2
3265.689599	0.1736	4	3
3268.405357	0.0977	5	4
3271.103284	0.0580	6	5
3273.782649	0.7707	7	6
3276.445689	0.0136	8	7
3216.825670	0.1120	12	13
3286.916350	0.0802	12	11
3219.839368	0.0468	11	12
3222.835923	0.0277	10	11
3281.716676	0.0012	10	9
3284.325421	0.0166	11	10
3225.814554	0.6678	9	10
3228.777229	0.0176	8	9
3231.721899	0.0197	7	8
3234.649132	0.0587	6	7
3237.558936	0.0819	5	6
3240.451272	0.0863	4	5
3243.326075	0.0976	3	4
3262.956383	0.0708	3	2
3265.689732	0.0406	4	3
3268.405450	0.0047	5	4
3271.103343	0.0009	6	5
3273.783451	0.0312	7	6
3276.445732	0.0566	8	7
3219.839414	0.0928	11	12
3222.835951	0.0557	10	11
3225.817093*	1.8711	9	10
3231.721964	0.0452	7	8
3240.451249	0.1093	4	5
3243.326056	0.1166	3	4
3246.183302	0.1217	2	3
3262.956464	0.1518	3	2
3265.689857	0.0843	4	3
3268.405574	0.1192	5	4
3271.103389	0.0469	6	5

Table 200 continued

12(2)0-02(2)0 HCNBKS HCNBJS HCNBIS observed	10^3(o-c)	J′	J″
3273.783771	0.3512	7	6
3281.716692	0.0147	10	9
3284.325427	0.0226	11	10

THE RMS DEV = 0.000174 FOR 49 LINES

Table 201

12(2F)0-02(2F)0 HCNBKS HCNBJS HCNBIS observed	10^3(o-c)	J′	J″
3122.469679	0.0666	41	42
3129.398476*	2.3840	39	40
3136.263205	0.1290	37	38
3139.673560	0.5042	36	37
3143.070034	0.0859	35	36
3146.450782	0.1304	34	35
3149.816394	0.2946	33	34
3153.166221	0.0045	32	33
3156.500895	0.0331	31	32
3159.820270	0.1095	30	31
3163.123954	0.1146	29	30
3166.412082	0.1904	28	29
3169.684330	0.0859	27	28
3172.940537	0.2870	26	27
3176.181619	0.0596	25	26
3179.406489	0.1111	24	25
3182.615345	0.1371	23	24
3185.808122	0.1437	22	23
3188.984752	0.1342	21	22
3192.145208	0.1521	20	21
3195.289431	0.2089	19	20
3198.417196	0.1497	18	19
3201.528630	0.1713	17	18
3204.621668*	1.7216	16	17
3207.701949	0.1789	15	16
3210.763754	0.2232	14	15
3213.808783	0.1798	13	14
3292.024013	0.1014	14	13
3294.556426	0.0458	15	14
3297.070134	0.0649	16	15
3299.565184	0.0514	17	16
3302.039334*	2.1874	18	17
3304.498957	0.0404	19	18
3306.937579	0.0251	20	19
3309.357278	0.0047	21	20
3311.757799	0.1758	22	21
3314.141620*	1.9974	23	22

Table 201 continued

12(2F)0-02(2F)0 HCNBKS HCNBJS HCNBIS observed	10^3(o-c)	J′	J″
3318.845549	0.0053	25	24
3321.169861	0.1362	26	25
3323.474732	0.1090	27	26
3325.760258	0.0647	28	27
3328.026455	0.0747	29	28
3332.500490	0.1040	31	30
3334.708137	0.0403	32	31
3153.165415	0.8014	32	33
3156.498802*	2.1261	31	32
3159.819325	0.8354	30	31
3163.123496	0.3433	29	30
3166.412194	0.3024	28	29
3159.819325	0.8354	30	31
3163.123496	0.3433	29	30
3166.412194	0.3024	28	29
3169.684432	0.1879	27	28
3172.940783	0.0410	26	27
3176.181741	0.1816	25	26
3179.406315	0.0628	24	25
3182.615215	0.0071	23	24
3185.808015	0.0367	22	23
3188.984596	0.0217	21	22
3192.145224	0.1681	20	21
3195.289291	0.0689	19	20
3198.417154	0.1077	18	19
3201.528601	0.1423	17	18
3204.621442*	1.9476	16	17
3207.701828	0.0579	15	16
3210.763633	0.1022	14	15
3213.808718	0.1148	13	14
3216.837173	0.2542	12	13
3286.903640	0.1116	12	11
3292.024100	0.0144	14	13
3294.556479	0.0071	15	14
3297.070193	0.0059	16	15
3299.565237	0.0015	17	16
3302.039290*	2.2314	18	17
3304.498952	0.0454	19	18
3306.937576	0.0281	20	19
3309.357238	0.0447	21	20
3311.757935	0.0398	22	21
3314.141156*	1.5334	23	22
3318.845748	0.1936	25	24
3321.169901	0.1762	26	25
3323.474653	0.0300	27	26
3325.760811	0.6177	28	27

Table 201 continued

12(2F)0-02(2F)0 HCNBKS HCNBJS HCNBIS observed	10^3(o-c)	J′	J″
3328.026937	0.5567	29	28
3176.182022	0.4626	25	26
3179.405337	1.0408	24	25
3182.615455	0.2471	23	24
3185.807848	0.1302	22	23
3188.984275	0.3427	21	22
3192.144845	0.2108	20	21
3195.289598	0.3759	19	20
3198.417098	0.0517	18	19
3201.528254	0.2046	17	18
3204.621746*	1.6436	16	17
3207.701854	0.0839	15	16
3210.763586	0.0552	14	15
3213.808546	0.0571	13	14
3216.836936	0.0172	12	13
3286.903894	0.1423	12	11
3292.024172	0.0575	14	13
3294.556332	0.1398	15	14
3297.070451	0.2520	16	15
3299.565336	0.1005	17	16
3302.038585*	2.9364	18	17
3304.498787	0.2104	19	18
3306.937489	0.1151	20	19
3309.356781	0.5017	21	20
3311.757466	0.5088	22	21
3314.141366*	1.7434	23	22
3316.503074	0.9059	24	23
3318.845422	0.1323	25	24
3321.169917	0.1922	26	25
3323.473808	0.8149	27	26

THE RMS DEV = 0.000275 FOR 99 LINES

Table 202

12(2E)0-02(2E)0 HCNBKS HCNBJS HCNBIS observed	10^3(o-c)	J′	J″
3136.035105	0.7700	37	38
3139.455470*	2.3618	36	37
3142.855653	0.0021	35	36
3146.244020	0.5781	34	35
3149.615946	0.4426	33	34
3152.974762	0.3520	32	33
3156.317572	0.1583	31	32
3159.645297	0.0027	30	31
3162.957945	0.0156	29	30
3166.255381	0.1008	28	29
3169.537153	0.0187	27	28
3172.803420	0.0286	26	27
3176.053743	0.1698	25	26
3179.288598	0.0429	24	25
3182.507222	0.0515	23	24
3185.709689	0.0795	22	23
3188.895821	0.0976	21	22
3192.065401	0.0354	20	21
3195.218486	0.0917	19	20
3198.354813	0.1388	18	19
3201.474470	0.3917	17	18
3204.576617	0.1283	16	17
3207.661912	0.1143	15	16
3210.729987	0.0789	14	15
3213.780566	0.1673	13	14
3292.064613	0.0148	14	13
3294.606616	0.0689	15	14
3297.131351	0.1782	16	15
3299.638790	0.3778	17	16
3304.602774	0.0046	19	18
3307.058524	0.1569	20	19
3309.497156	0.0780	21	20
3311.918279	0.0716	22	21
3314.321887	0.0352	23	22
3316.708104	0.2837	24	23
3319.072570*	3.3277	25	24
3321.426008	0.0157	26	25
3323.757917	0.0125	27	26
3326.071507	0.0201	28	27
3328.366640	0.0417	29	28
3332.900558	0.1436	31	30
3335.138908	0.1114	32	31
3337.358328	0.3964	33	32
3339.557688	0.0289	34	33
3343.899741*	1.4359	36	35
3346.039614	0.6551	37	36

Table 202 continued

12(2E)0-02(2E)0 observed	10^3(o-c)	J′	J″
3152.975549	1.1390	32	33
3156.316605	0.8086	31	32
3159.645504	0.2042	30	31
3162.957245	0.7156	29	30
3166.255327	0.0468	28	29
3169.537301	0.1667	27	28
3172.803562	0.1706	26	27
3176.053387	0.5258	25	26
3179.288615	0.0599	24	25
3182.507198	0.0275	23	24
3185.709692	0.0825	22	23
3188.895821	0.0976	21	22
3192.065310	0.0555	20	21
3195.218354	0.0402	19	20
3198.354731	0.0568	18	19
3201.474186	0.1077	17	18
3204.576614	0.1253	16	17
3207.661872	0.0743	15	16
3210.729978	0.0699	14	15
3213.780787	0.0536	13	14
3216.814041	0.1561	12	13
3286.928888	0.1000	12	11
3292.064570	0.0578	14	13
3294.606649	0.0359	15	14
3297.131414	0.1152	16	15
3299.639025	0.1428	17	16
3302.128998	0.5947	18	17
3304.602781	0.0023	19	18
3307.058620	0.0609	20	19
3309.497229	0.0050	21	20
3311.918350	0.0006	22	21
3314.322001	0.0787	23	22
3316.708015	0.1947	24	23
3319.075557	0.3407	25	24
3321.425853	0.1392	26	25
3323.757838	0.0915	27	26
3326.071848	0.3208	28	27
3328.366252	0.3462	29	28
3332.899761	0.6533	31	30
3335.140487*	1.6904	32	31
3337.358074	0.1424	33	32
3182.506723	0.4474	23	24
3185.709997	0.3875	22	23
3188.895449	0.2743	21	22
3192.065087	0.2785	20	21

Table 202 continued

12(2E)0-02(2E)0 observed	10^3(o-c)	J′	J″
3195.218532	0.1377	19	20
3198.354791	0.1168	18	19
3201.474456	0.3777	17	18
3204.576430	0.0586	16	17
3207.661829	0.0313	15	16
3210.730079	0.1709	14	15
3213.780821	0.0876	13	14
3216.814088	0.1091	12	13
3286.928717	0.0709	12	11
3292.064630	0.0021	14	13
3294.606770	0.0850	15	14
3297.131309	0.2202	16	15
3299.639281	0.1131	17	16
3302.129108	0.4847	18	17
3304.602678	0.1006	19	18
3307.058523	0.1579	20	19
3309.497226	0.0080	21	20
3311.918468	0.1174	22	21
3314.321838	0.0842	23	22
3316.707616	0.2042	24	23

THE RMS DEV = 0.000271 FOR 106 LINES

Table 203

10(0)0-00(0)0 HCNBKS observed	HCNBJS 10^3(o-c)	HCNBIS J′	J″
3145.828903	0.3205	45	46
3149.378304	0.8390	44	45
3152.914484	0.0807	43	44
3156.434876	0.1134	42	43
3159.939576	0.0759	41	42
3163.429070	0.0791	40	41
3166.903046	0.1249	39	40
3170.361601	0.0335	38	39
3173.804369	0.0890	37	38
3177.231492	0.0677	36	37
3180.642744	0.1147	35	36
3184.038177	0.0976	34	35
3187.417638	0.0896	33	34
3190.781048	0.0903	32	33
3194.128331	0.0969	31	32
3197.459434	0.0843	30	31
3371.601592	0.0069	32	31
3373.755916	0.0064	33	32
3375.890037	0.0135	34	33
3378.003883	0.0002	35	34
3380.097460	0.0138	36	35
3382.170703	0.0330	37	36
3384.223597	0.0836	38	37
3386.255940	0.0044	39	38
3388.267868	0.0286	40	39
3390.259407	0.0496	41	40
3392.230247	0.0321	42	41
3394.180802	0.1775	43	42
3396.110661	0.3047	44	43
3398.017843*	1.5954	45	44
3399.907581	0.2545	46	45
3401.776701*	1.1878	47	46
3127.851993	0.2766	50	51
3131.476735	0.0610	49	50
3135.086900	0.0271	48	49
3138.682875	0.4870	47	48
3142.263050	0.0813	46	47
3145.828699	0.1165	45	46
3149.379281	0.1379	44	45
3152.914653	0.0882	43	44
3156.434851	0.0884	42	43
3159.939697	0.0450	41	42
3163.429190	0.0408	40	41
3166.903183	0.0120	39	40
3170.361604	0.0305	38	39
3173.804420	0.0380	37	38
3177.231512	0.0477	36	37
3382.170698	0.0280	37	36
3384.223609	0.0956	38	37
3386.255948	0.0124	39	38

Table 203 continued

10(0)0-00(0)0 HCNBKS observed	HCNBJS 10^3(o-c)	HCNBIS J′	J″
3388.267811	0.0856	40	39
3390.259390	0.0326	41	40
3392.230321	0.0418	42	41
3394.180610	0.0144	43	42
3396.110346	0.0102	44	43
3398.018829	0.6094	45	44
3399.907632	0.2035	46	45
3401.775442	0.0711	47	46
3403.622565	0.1275	48	47
3405.451450*	2.8745	49	48
3407.253392	0.5032	50	49
3163.429628	0.4788	40	41
3166.902847	0.3239	39	40
3170.361497	0.1375	38	39
3173.804264	0.1940	37	38
3177.231420	0.1397	36	37
3180.642786	0.0727	35	36
3184.038157	0.1176	34	35
3187.417596	0.1316	33	34
3190.781013	0.1253	32	33
3194.128312	0.1159	31	32
3197.459370	0.1483	30	31
3200.774195	0.1368	29	30
3204.072642	0.1491	28	29
3207.354682	0.1376	27	28
3210.620205	0.1362	26	27
3213.869142	0.1382	25	26
3217.101434	0.1275	24	25
3220.316987	0.1235	23	24
3223.515763	0.0900	22	23
3353.644829	0.0182	24	23
3355.959195	0.0159	25	24
3358.253683	0.0527	26	25
3360.528366	0.0069	27	26
3362.783070	0.0045	28	27
3365.017795	0.0020	29	28
3367.232494	0.0124	30	29
3369.427105	0.0109	31	30
3371.601628	0.0429	32	31
3373.755946	0.0364	33	32
3375.890030	0.0065	34	33
3378.003938	0.0547	35	34
3380.097438	0.0081	36	35
3382.170802	0.1320	37	36
3384.223622	0.1086	38	37
3386.256142	0.2064	39	38
3388.267679	0.2176	40	39
3390.260093	0.7356	41	40
3392.230706	0.4268	42	41
3394.180673	0.0485	43	42

THE RMS DEV = 0.000195 FOR 96 LINES

Table 204

11(1E)0-01(1E)0 HCNBKS HCNBJS HCNBIS observed	10^3(o-c)	J′	J″
3130.937414	0.1062	44	45
3134.461129	0.2804	43	44
3137.970655	0.1136	42	43
3141.464373	0.2434	41	42
3144.943390	0.1587	40	41
3148.407495	0.2419	39	40
3151.855830	0.1849	38	39
3155.288784	0.1429	37	38
3158.706241	0.0827	36	37
3162.108251	0.1364	35	36
3165.494577	0.1484	34	35
3168.865147	0.1273	33	34
3172.219916	0.1082	32	33
3175.558809	0.0952	31	32
3178.881737	0.0781	30	31
3182.188627	0.0618	29	30
3185.479419	0.0638	28	29
3188.753996	0.0437	27	28
3339.605889	0.0934	26	25
3341.886482	0.5733	27	26
3344.142645*	3.6553	28	27
3346.386975	0.0527	29	28
3348.607831	0.1041	30	29
3350.808814	0.1467	31	30
3352.989857	0.1596	32	31
3355.150962	0.1900	33	32
3357.292039	0.1925	34	33
3359.413088	0.2107	35	34
3361.514026	0.2046	36	35
3363.593929	0.7077	37	36
3367.695764	0.0460	39	38
3369.716361	0.4568	40	39
3371.715852	0.0494	41	40
3373.695322	0.0539	42	41
3375.654184	0.4037	43	42
3377.592424	0.9786	44	43
3379.512418	0.6316	45	44
3162.107055	1.0595	35	36
3165.493379	1.0495	34	35
3168.864458	0.5616	33	34
3172.219264	0.5437	32	33
3175.558507	0.2067	31	32
3178.881857	0.1981	30	31
3182.188621	0.0558	29	30
3185.479359	0.0038	28	29
3188.753835	0.1172	27	28
3192.012243	0.0372	26	27
3195.254217	0.0464	25	26
3198.479733	0.0939	24	25
3201.688564	0.3323	23	24

Table 204 continued

11(1E)0-01(1E)0 HCNBKS HCNBJS HCNBIS observed	10^3(o-c)	J′	J″
3204.881273	0.1245	22	23
3208.057155	0.1022	21	22
3211.216319	0.0836	20	21
3214.358663	0.0982	19	20
3217.484174	0.0874	18	19
3220.592746	0.0856	17	18
3223.684320	0.0810	16	17
3226.758833	0.0663	15	16
3229.816181	0.0754	14	15
3232.856339	0.0639	13	14
3235.879220	0.0499	12	13
3238.884743	0.0456	11	12
3241.872867	0.0240	10	11
3244.843492	0.0175	9	10
3247.796569	0.0077	8	9
3250.732029	0.0032	7	8
3253.649794	0.0036	6	7
3256.549822	0.0174	5	6
3259.432033	0.0303	4	5
3262.296357	0.0374	3	4
3265.142722	0.0313	2	3
3267.971097	0.0454	1	2
3279.102881	0.2413	2	1
3281.840371	0.1117	3	2
3284.559485	0.0289	4	3
3287.260035	0.0539	5	4
3289.942011	0.0142	6	5
3292.605454	0.0111	7	6
3295.250260	0.0007	8	7
3297.876377	0.0095	9	8
3300.483752	0.0135	10	9
3303.072304	0.0336	11	10
3305.642009	0.0359	12	11
3308.192780	0.0495	13	12
3310.724601	0.0334	14	13
3313.237330	0.0729	15	14
3315.731007	0.0719	16	15
3318.205554	0.0529	17	16
3320.660892	0.0397	18	17
3323.096838	0.1608	19	18
3325.513705	0.0493	20	19
3327.911132	0.0128	21	20
3330.289098	0.0195	22	21
3332.647596	0.0242	23	22
3334.986647	0.0456	24	23
3337.306046	0.0361	25	24
3339.605874	0.0784	26	25
3341.886017	0.1083	27	26
3344.146416	0.1156	28	27
3346.386997	0.0747	29	28

Table 204 continued

11(1E)0-01(1E)0 HCNBKS HCNBJS HCNBIS observed	10^3(o-c)	J′	J″
3348.607798	0.0711	30	29
3350.808601	0.0662	31	30
3352.990294	0.5966	32	31
3355.150157	0.6149	33	32
3357.291327	0.5194	34	33
3359.411654*	1.2232	35	34
3148.407901	0.6479	39	40
3151.855361	0.2840	38	39
3155.289079	0.4379	37	38
3158.707159	1.0007	36	37
3162.108302	0.1874	35	36
3165.494469	0.0404	34	35
3168.864994	0.0256	33	34
3172.219898	0.0902	32	33
3175.558794	0.0802	31	32
3178.881691	0.0321	30	31
3182.188583	0.0178	29	30
3185.479357	0.0018	28	29
3188.753947	0.0052	27	28
3192.012268	0.0122	26	27
3195.254248	0.0154	25	26
3198.479818	0.0089	24	25
3201.688590	0.3063	23	24
3204.881385	0.0125	22	23
3208.057236	0.0212	21	22
3211.216402	0.0006	20	21
3214.358744	0.0172	19	20
3217.484275	0.0135	18	19
3325.513655	0.0993	20	19
3327.911066	0.0788	21	20
3330.289051	0.0665	22	21
3332.647563	0.0572	23	22
3334.986439	0.1623	24	23
3337.306000	0.0098	25	24
3339.605822	0.0264	26	25
3341.885957	0.0483	27	26
3344.146039	0.2613	28	27
3346.387025	0.1027	29	28
3348.607830	0.1031	30	29
3350.808814	0.1467	31	30
3352.989916	0.2186	32	31
3355.150913	0.1410	33	32
3357.292036	0.1895	34	33
3359.413257	0.3797	35	34
3361.514080	0.2586	36	35
3363.594224	0.4127	37	36
3367.694510*	1.2079	39	38
3369.714162*	1.7421	40	39

THE RMS DEV = 0.000264 FOR 144 LINES

Table 205

11(1F)0-01(1F)0 HCNBKS HCNBJS HCNBIS observed	10^3(o-c)	J′	J″
3134.129439	0.3412	43	44
3137.640693	0.1992	42	43
3141.137033	0.0120	41	42
3144.618802	0.2025	40	41
3148.085088	0.0618	39	40
3151.536574	0.0197	38	39
3154.972774	0.0789	37	38
3158.393770	0.0799	36	37
3161.799468	0.0398	35	36
3165.189688	0.0623	34	35
3168.564442	0.0593	33	34
3171.923644	0.0416	32	33
3175.267187	0.0412	31	32
3178.595026	0.0286	30	31
3181.907081	0.0099	29	30
3185.203271	0.0075	28	29
3188.483594	0.0950	27	28
3344.626265	0.0018	28	27
3346.887079	0.0180	29	28
3349.128230	0.0380	30	29
3351.350454	0.8477	31	30
3353.551183	0.0680	32	31
3355.732970	0.1040	33	32
3357.895039	0.0155	34	33
3360.037081	0.0326	35	34
3362.159134	0.0356	36	35
3364.261186	0.0620	37	36
3366.343078	0.0017	38	37
3368.404279	0.6279	39	38
3372.468386	0.3703	41	40
3374.469213	0.0118	42	41
3168.563489	1.0123	33	34
3171.923076	0.6096	32	33
3175.267237	0.0087	31	32
3178.595187	0.1323	30	31
3181.907044	0.0469	29	30
3185.203198	0.0654	28	29
3188.483505	0.0060	27	28
3191.747622	0.1028	26	27
3194.995825	0.0437	25	26
3198.227778	0.0805	24	25
3201.443617	0.0056	23	24
3204.643109	0.0191	22	23
3207.826214	0.0249	21	22
3210.992858	0.0081	20	21
3214.143092	0.0901	19	20
3217.276597	0.0219	18	19
3220.393543	0.0431	17	18
3223.493146	0.5607	16	17
3226.577173	0.0460	15	16

Table 205 continued

11(1F)0-01(1F)0 HCNBKS HCNBJS HCNBIS observed	10^3(o-c)	J′	J″
3229.643743	0.0516	14	15
3232.693392	0.0604	13	14
3235.726033	0.0537	12	13
3238.741621	0.0545	11	12
3241.740089	0.0635	10	11
3244.721346	0.0572	9	10
3247.685334	0.0448	8	9
3250.632014	0.0543	7	8
3253.561280	0.0466	6	7
3256.473096	0.0520	5	6
3259.367373	0.0478	4	5
3262.244058	0.0470	3	4
3265.103056	0.0205	2	3
3267.944393	0.0597	1	2
3279.131014	0.0589	2	1
3281.882472	0.1727	3	2
3284.616266	0.0462	4	3
3287.331669	0.0527	5	4
3290.028823	0.0523	6	5
3292.707684	0.0641	7	6
3295.368153	0.0521	8	7
3298.010212	0.0610	9	8
3300.633781	0.0732	10	9
3303.238766	0.0568	11	10
3305.825158	0.0645	12	11
3308.392868	0.0687	13	12
3310.941834	0.0687	14	13
3313.472009	0.0782	15	14
3315.983312	0.0766	16	15
3318.475690	0.0710	17	16
3320.949098	0.0762	18	17
3323.403463	0.0784	19	18
3325.838724	0.0756	20	19
3328.254838	0.0833	21	20
3330.651721	0.0756	22	21
3333.029324	0.0611	23	22
3335.387602	0.0520	24	23
3337.726514	0.0641	25	24
3340.045974	0.0676	26	25
3342.346031	0.1672	27	26
3344.626340	0.0731	28	27
3346.887059	0.0019	29	28
3349.128362	0.1700	30	29
3351.349642	0.0357	31	30
3353.550963	0.2880	32	31
3355.733040	0.0340	33	32
3148.082059*	3.0908	39	40

Table 205 continued

11(1F)0-01(1F)0 HCNBKS HCNBJS HCNBIS observed	10^3(o-c)	J′	J″
3151.536822	0.2282	38	39
3154.971654*	1.1989	37	38
3158.393690	0.1599	36	37
3161.799650	0.1421	35	36
3165.189396	0.3543	34	35
3168.564243	0.2583	33	34
3171.923542	0.1436	32	33
3175.267160	0.0682	31	32
3178.595015	0.0396	30	31
3181.907052	0.0389	29	30
3185.203232	0.0314	28	29
3188.483565	0.0660	27	28
3191.747725	0.0001	26	27
3194.995870	0.0012	25	26
3198.227887	0.0284	24	25
3201.443680	0.0573	23	24
3204.643264	0.1741	22	23
3207.826279	0.0899	21	22
3210.992957	0.1071	20	21
3214.143143	0.1411	19	20
3217.276720	0.1449	18	19
3325.838659	0.0106	20	19
3328.254763	0.0083	21	20
3330.651655	0.0096	22	21
3333.029267	0.0041	23	22
3335.387538	0.0119	24	23
3337.726469	0.0191	25	24
3340.045913	0.0066	26	25
3342.345883	0.0192	27	26
3344.626290	0.0231	28	27
3346.887106	0.0450	29	28
3349.128184	0.0079	30	29
3351.350140	0.5337	31	30
3353.551299	0.0479	32	31
3355.732964	0.1100	33	32
3357.895162	0.1385	34	33
3360.037100	0.0516	35	34
3362.159044	0.0543	36	35
3364.261170	0.0460	37	36
3366.343411	0.3347	38	37
3368.404340	0.5669	39	38

THE RMS DEV = 0.000188 FOR 135 LINES

Table 206

01(1E)1-01(1E)0 TGHCBGS

observed	10^3(o-c)	J′	J″
1979.149905	1.0281	15	16
1982.218700	0.1983	14	15
1985.268109	0.0328	13	14
1988.300680	0.8875	12	13
1991.313337	0.0549	11	12
1994.309323	0.4440	10	11
1997.286343	0.1512	9	10
2000.245081	0.1874	8	9
2003.186019	0.0280	7	8
2006.108308	0.1576	6	7
2009.012375	0.0868	5	6
2011.897914	0.0594	4	5
2014.764524	0.4140	3	4
2017.612894	0.3989	2	3
2020.442706	0.2694	1	2
2031.573945	0.2204	2	1
2034.309329	0.2278	3	2
2037.025566	0.1390	4	3
2039.723211	0.5726	5	4
2042.400928	0.2559	6	5
2045.059584	0.1198	7	6
2047.699038	0.0870	8	7
2050.319120	0.0512	9	8
2052.919685	0.0684	10	9
2055.500929	0.0120	11	10
2058.062535	0.0324	12	11
2060.604435	0.1333	13	12
2063.126697	0.1826	14	13
2065.629359	0.0778	15	14
2070.575331	0.2999	17	16
2073.017735	0.2039	18	17
2075.440547	0.2875	19	18
2077.843548	0.1050	20	19
2080.226133	0.1966	21	20
2082.588647	0.1525	22	21
2087.252790	0.0692	24	23
2089.554253	0.0660	25	24
2091.832059*	3.2530	26	25
2096.335639	0.0020	28	27
2098.552988*	1.8504	29	28
2100.753292	0.0202	30	29
2102.931023	0.0299	31	30
2105.087918	0.1025	32	31
2109.338528	0.0956	34	33
2111.432884	0.4054	35	34
2113.504742	0.4713	36	35
2115.556184	0.5785	37	36

THE RMS DEV = 0.000306 FOR 45 LINES

Table 207

01(1F)1-01(1F)0 TGHCBGS

observed	10^3(o-c)	J′	J″
1978.933238	0.0855	15	16
1982.014488	0.1068	14	15
1985.078082	0.3986	13	14
1988.122936	0.0601	12	13
1991.150000	0.2562	11	12
1994.159448	0.0477	10	11
1997.150410	0.0453	9	10
2000.123203	0.1170	8	9
2003.077541	0.0408	7	8
2006.013337	0.2065	6	7
2008.930867	0.2851	5	6
2011.828746*	1.5157	4	5
2014.710462	0.3460	3	4
2017.572444	0.2828	2	3
2020.415875	0.0785	1	2
2031.600775	0.1286	2	1
2034.349550	0.1081	3	2
2037.079373	0.2167	4	3
2039.789979	0.2546	5	4
2042.481259	0.1781	6	5
2045.153311	0.1505	7	6
2047.805772	0.1255	8	7
2050.439193	0.0338	9	8
2053.053053	0.0294	10	9
2055.647441	0.0420	11	10
2058.222188	0.0775	12	11
2060.777054	0.0970	13	12
2063.312332	0.1230	14	13
2065.827892	0.0643	15	14
2068.321163*	2.4259	16	15
2070.799125	0.1618	17	16
2073.252994*	1.9898	18	17
2075.690478	0.1358	19	18
2078.106063	0.0475	20	19
2080.502040	0.6322	21	20
2082.876337	0.1021	22	21
2085.230952	0.1864	23	22
2089.879292	0.0168	25	24
2092.172421	0.1586	26	25
2094.445218	0.0685	27	26
2096.697288	0.0411	28	27
2098.928832	0.1908	29	28
2101.138625	0.5310	30	29
2103.329215	0.4077	31	30
2105.497400	0.1284	32	31
2107.645329	0.0758	33	32
2109.772206	0.2912	34	33
2111.877343	0.1038	35	34

THE RMS DEV = 0.000209 FOR 45 LINES

Table 208
04(0)0-00(0)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2703.820425	0.9107	27	28
2706.404618	0.8294	26	27
2708.980940	0.1202	25	26
2714.099694	0.6704	23	24
2716.645628	0.4084	22	23
2719.180883	0.0574	21	22
2721.708435	0.0049	20	21
2724.228730	0.1653	19	20
2726.743848	0.0946	18	19
2731.763840	0.0933	16	17
2734.273112	0.1304	15	16
2736.784964	0.2244	14	15
2741.825625	0.0605	12	13
2744.360344	0.7662	11	12
2746.903197*	2.7016	10	11
2749.466846	0.0040	9	10
2752.040407*	4.1739	8	9
2757.260612*	2.3600	6	7
2759.897457	0.1203	5	6
2762.560295	0.1614	4	5
2765.246670*	1.3500	3	4
2767.960821	0.3410	2	3
2770.700156	0.3818	1	2
2773.466548	0.0151	0	1
2779.079003	0.0267	1	0
2781.925135	0.0283	2	1
2784.797091	0.0132	3	2
2787.694308	0.0658	4	3
2790.615555	0.0537	5	4
2793.559717	0.0915	6	5
2796.525242	0.1161	7	6
2799.510407	0.1192	8	7
2802.513223	0.0406	9	8
2805.531505	0.1787	10	9
2808.563560	0.0662	11	10
2811.606102	0.0705	12	11
2814.657130	0.0489	13	12
2817.713844	0.0721	14	13
2820.773642	0.1428	15	14
2823.834174	0.0644	16	15
2826.892732	0.1071	17	16
2829.947084	0.2256	18	17
2832.995392	0.1864	19	18
2836.035592	0.2213	20	19
2839.066167	0.2766	21	20
2842.085861	0.3064	22	21
2845.093535	0.4128	23	22
2848.089094	0.0974	24	23
2851.071214	0.4635	25	24
2854.038972	0.1300	26	25

Table 208 continued
04(0)0-00(0)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2856.993657	0.5895	27	26
2859.932010*	1.3454	28	27
2862.859220	0.5160	29	28

THE RMS DEV = 0.000310 FOR 47 LINES

Table 209
04(2E)0-01(1E)0 TGHCBGS

observed	10^3(o-c)	J′	J″
2062.434698	0.7340	8	9
2057.407240	0.0102	10	11
2054.948919	0.6215	11	12
2052.529278	0.5089	12	13
2050.150708	0.0480	13	14
2045.527922	0.2744	15	16
2043.286990	0.3979	16	17
2041.095157	0.1438	17	18
2038.955756*	1.2293	18	19
2036.865938	0.5621	19	20
2034.832043	0.0322	20	21
2029.055182	0.6862	23	24
2027.240703	0.6579	24	25
2095.114170	0.0277	3	2
2098.011829	0.1726	4	3
2100.937074	0.2048	5	4
2103.890891	0.1658	6	5
2106.874485	0.1207	7	6
2109.889163	0.0485	8	7
2112.936496	0.0156	9	8
2116.018041	0.0840	10	9
2119.135821	0.0253	11	10
2122.291365	0.1794	12	11
2125.486911	0.2710	13	12
2128.724494	0.2435	14	13
2132.005795	0.3563	15	14
2135.332983	0.2867	16	15
2138.707592	0.1960	17	16
2142.130916	0.2811	18	17
2145.604432	0.3053	19	18
2149.128909	0.4536	20	19
2156.333724	0.4011	22	21
2160.014405	0.1871	23	22
2163.746766	0.0530	24	23
2167.529497	0.7244	25	24
2171.364279	0.3229	26	25
2175.247248	0.2997	27	26
2179.178327	0.4078	28	27

THE RMS DEV = 0.000355 FOR 37 LINES

Table 210

04(0)0-01(1E)0 TGHCBGS

observed	10^3(o-c)	J′	J″
2014.358924	0.2153	21	22
2016.870166	0.1663	20	21
2019.375264	0.2159	19	20
2021.875550	0.2586	18	19
2024.372706	0.2774	17	18
2026.868656	0.2573	16	17
2029.365579	0.2326	15	16
2031.865851	0.2733	14	15
2034.371781	0.2735	13	14
2036.885837	0.2331	12	13
2039.410549	0.2162	11	12
2041.948269	0.1640	10	11
2044.501364	0.1340	9	10
2047.071938	0.0614	8	9
2049.661953	0.0880	7	8
2052.273454	0.0693	6	7
2054.907696	0.2135	5	6
2057.566260	0.3006	4	5
2060.250468	0.1369	3	4
2062.960800	0.1340	2	3
2065.700723*	2.5213	1	2
2068.463106	0.2837	0	1
2085.618358	0.2715	5	4
2091.535533	0.0749	7	6
2094.525274	0.2852	8	7
2100.559054	0.0746	10	9
2103.597914	0.0322	11	10
2109.707887	0.0466	13	12
2115.843700	0.1496	15	14
2118.914982	0.0941	16	15
2121.985022	0.1814	17	16
2125.051813	0.1484	18	17
2128.113146	0.1398	19	18
2131.167165	0.1859	20	19
2134.212476	0.1206	21	20
2137.247523	0.2037	22	21
2140.271548	0.1683	23	22
2143.283585	0.1987	24	23
2146.283133	0.2451	25	24
2149.270023	0.1177	26	25
2152.243963	0.0836	27	26
2155.204447	0.0867	28	27
2158.152354	0.2091	29	28
2161.086862	0.0307	30	29
2164.009231	0.4706	31	30
2166.918062	0.0732	32	31

THE RMS DEV = 0.000197 FOR 45 LINES

Table 211

04(2F)0-01(1F)0 TGHCBGS

observed	10^3(o-c)	J′	J″
2064.485896	0.1438	7	8
2053.732124	0.2472	11	12
2051.072530	0.3584	12	13
2048.423502	0.0289	13	14
2045.786170	0.7020	14	15
2043.158014	0.2019	15	16
2040.540239	0.1079	16	17
2037.932139	0.1161	17	18
2035.333025	0.0328	18	19
2032.742857	0.0801	19	20
2030.160807	0.1131	20	21
2027.586470	0.1739	21	22
2025.019935*	0.8887	22	23
2022.458663	0.2817	23	24
2019.903711	0.0042	24	25
2017.353780	0.6640	25	26
2014.810111	0.1720	26	27
2012.270249	0.6907	27	28
2007.198165	0.3587	29	30
2004.666651	0.1321	30	31
2092.233866*	4.0157	2	1
2095.072734	0.2513	3	2
2097.927322	0.1432	4	3
2100.793979	0.2208	5	4
2103.672242	0.2304	6	5
2106.561819	0.1185	7	6
2109.462631	0.0736	8	7
2112.374319	0.0338	9	8
2115.296514	0.0438	10	9
2118.228873	0.1467	11	10
2121.171126	0.1596	12	11
2124.122698	0.2430	13	12
2127.083374	0.1681	14	13
2130.052385	0.2307	15	14
2133.029431	0.2285	16	15
2136.013828	0.3144	17	16
2139.005211	0.2940	18	17
2142.002923	0.2369	19	18
2145.006187	0.3055	20	19
2148.014606	0.2559	21	20
2151.027352	0.2496	22	21
2154.043975	0.0462	23	22
2157.063442	0.0348	24	23
2160.084861	0.1639	25	24
2163.107852	0.2687	26	25
2166.131604	0.3194	27	26

Table 211 continued

04(2F)0-01(1F)0 TGHCBGS

observed	10^3(o-c)	J′	J″
2169.155652	0.0047	28	27
2172.179276	0.7819	29	28
2178.218177	0.1427	31	30

THE RMS DEV = 0.000282 FOR 47 LINES

Table 212

03(3F)0-00(0)0 TGHCBGS

observed	10^3(o-c)	J′	J″
2124.745972	0.3009	11	11
2124.948754	0.4378	12	12
2125.170894	0.3192	13	13
2125.412063	0.0792	14	14
2125.672654	0.2217	15	15
2125.952575	0.0084	16	16
2126.253272	0.1189	17	17
2126.574926	0.1755	18	18
2126.917754	0.2941	19	19
2127.283750	0.0276	20	20
2128.085625	0.1910	22	22
2128.523850	0.0913	23	23
2128.988144	0.0040	24	24
2129.479449	0.0589	25	25
2129.999364	0.1436	26	26
2130.548458	0.0658	27	27
2131.128763	0.0228	28	28
2131.741359	0.1053	29	29
2132.386984	0.5211	30	30
2133.069156	0.1737	31	31
2133.785219*	1.9810	32	32
2134.543889	0.2017	33	33
2136.176240*	1.2769	35	35

THE RMS DEV = 0.000218 FOR 21 LINES

Table 213

03(1F)0-00(0)0 TGHCBFS

observed	10^3(o-c)	J′	J″
2093.174776	0.0405	1	1
2093.241336	0.0322	2	2
2093.341127	0.0586	3	3
2093.474005	0.0793	4	4
2093.639811	0.0774	5	5
2093.838398	0.0819	6	6
2094.069546	0.0879	7	7
2094.332997	0.0932	8	8
2094.628410	0.0523	9	9
2094.955574	0.0909	10	10
2095.313988	0.0905	11	11
2095.703262	0.0912	12	12
2096.122920	0.0952	13	13
2096.572416	0.0892	14	14
2097.051188	0.0956	15	15
2097.558568	0.0916	16	16
2098.093844	0.0734	17	17
2098.656312	0.1074	18	18
2099.245045	0.1096	19	19
2099.858942	0.1067	20	20
2100.497442	0.1139	21	21
2101.159492	0.1070	22	22
2101.843541	0.1557	23	23
2102.548426	0.1077	24	24
2104.015726	0.1116	26	26
2104.775120	0.0416	27	27
2105.549619	0.0646	28	28
2099.244902	0.0326	19	19
2099.858978	0.0705	20	20
2100.497481	0.0749	21	21
2101.159355	0.0299	22	22
2101.843369	0.0162	23	23
2102.548302	0.0164	24	24
2104.015614	0.0000	26	26
2104.775084	0.0057	27	27
2105.549710	0.0262	28	28
2106.337845	0.0571	29	29
2107.947690	0.0942	31	31
2108.765778	0.0435	32	32
2109.590379	0.1056	33	33
2110.419377	0.0141	34	34
2111.251444	0.1540	35	35
2112.083296	0.9273	36	36
2113.746702	0.0924	38	38

THE RMS DEV = 0.000162 FOR 44 LINES

Table 214

03(3E)0-00(0)0 TGHCBGS

observed	10^3(o-c)	J′	J″
2164.478820	0.0374	14	13
2167.529497*	6.5541	15	14
2170.585127	0.0301	16	15
2173.664872	0.5982	17	16
2176.763211	1.0810	18	17
2179.882632	0.8396	19	18
2183.017655	0.5449	20	19
2186.173566	0.1739	21	20
2189.348586	0.0455	22	21
2192.543315	0.2293	23	22
2195.757080	0.2228	24	23
2198.990992	0.4791	25	24
2202.245173	0.5915	26	25
2205.519622	0.7187	27	26

THE RMS DEV = 0.000538 FOR 13 LINES

Table 215

03(1E)0-00(0)0 HCBFS HCBGS

observed	10^3(o-c)	J′	J″
1986.812405	0.1252	38	39
1989.533904	0.3583	37	38
1992.251338	0.7831	36	37
1994.967799	0.3362	35	36
1997.681818	0.0846	34	35
2000.393034	0.0441	33	34
2003.102273	0.0760	32	33
2005.809677	0.0659	31	32
2008.515471	0.0031	30	31
2011.219711	0.0622	29	30
2013.922917	0.0291	28	29
2016.625250	0.1693	27	28
2019.326700	0.0706	26	27
2022.027934	0.1088	25	26
2024.729074	0.1027	24	25
2027.430503	0.1212	23	24
2030.132534	0.1546	22	23
2032.835471	0.1772	21	22
2035.539642	0.1823	20	21
2038.245410	0.1955	19	20
2040.953106	0.2101	18	19
2043.663055	0.2152	17	18
2046.375599	0.2209	16	17
2049.091055	0.2193	15	16
2051.809785	0.2561	14	15
2054.531169	0.5932	13	14
2057.257987	0.1597	12	13
2059.988295	0.2955	11	12
2062.722623	0.0863	10	11
2065.461708	0.0308	9	10
2068.205592	0.0455	8	9
2070.954515	0.0963	7	8
2073.708628	0.1394	6	7
2076.468061	0.1878	5	6
2079.233056	0.1152	4	5
2082.002713	0.9091	3	4
2084.779432	0.2283	2	3
2087.563059*	1.7445	1	2
2095.939829	0.0226	1	0
2098.743736	0.1310	2	1
2101.552917	0.2105	3	2
2104.367186	0.2290	4	3
2107.186346	0.1733	5	4
2110.010328	0.1870	6	5
2112.838760	0.1391	7	6
2115.671404	0.0596	8	7
2118.508091	0.0734	9	8
2121.348486	0.1642	10	9
2124.191864	0.0514	11	10
2127.038335	0.1003	12	11
2129.887365	0.1338	13	12

Table 215 continued

03(1E)0-00(0)0 HCBFS HCBGS

observed	10^3(o-c)	J′	J″
2132.738525	0.1804	14	13
2135.591443	0.1959	15	14
2138.445660	0.2099	16	15
2141.300741	0.2165	17	16
2144.156225	0.2271	18	17
2147.011686	0.2114	19	18
2149.866613	0.2200	20	19
2152.720612	0.1848	21	20
2155.573154	0.1732	22	21
2158.423812	0.1531	23	22
2161.272121	0.1360	24	23
2164.117638	0.1178	25	24
2166.959943	0.0808	26	25
2169.798577	0.0568	27	26
2172.633114	0.0571	28	27
2175.463184	0.0503	29	28
2178.288427	0.0102	30	29
2181.108413	0.0039	31	30
2183.922760	0.0357	32	31
2186.731252	0.0080	33	32
2189.533604	0.1217	34	33
2192.326083*	3.0767	35	34
2195.118056	0.0484	36	35
2197.900475	0.7173	37	36
2200.673998	0.1604	38	37
2203.440745	0.2299	39	38
2000.393130	0.0518	33	34
2003.103217	0.8679	32	33
2005.809109	0.6339	31	32
2008.514022*	1.4521	30	31
2011.219498	0.2752	29	30
2013.922856	0.0318	28	29
2016.626331*	1.2503	27	28
2019.326665	0.0356	26	27
2022.027862	0.0368	25	26
2024.728938	0.0332	24	25
2027.430427	0.0452	23	24
2030.132410	0.0306	22	23
2032.835377	0.0832	21	22
2035.539495	0.0353	20	21
2038.245281	0.0665	19	20
2040.952978	0.0821	18	19
2043.662918	0.0782	17	18
2046.375480	0.1019	16	17
2049.090919	0.0833	15	16
2051.809605	0.0761	14	15

Table 215 continued

03(1E)0-00(0)0 HCBFS HCBGS

observed	10^3(o-c)	J′	J″
2054.531049	0.7132	13	14
2057.257921	0.0937	12	13
2059.988313	0.3135	11	12
2062.722536	0.0006	10	11
2065.461742	0.0648	9	10
2068.205678	0.0404	8	9
2070.954756	0.1446	7	8
2073.708794	0.0265	6	7
2076.468283	0.0341	5	6
2079.233313	0.1417	4	5
2084.779692	0.0316	2	3
2087.563857*	2.5425	1	2
2095.939845	0.0386	1	0
2098.743674	0.0690	2	1
2101.552803	0.0965	3	2
2104.367047	0.0900	4	3
2107.186254	0.0813	5	4
2110.010222	0.0810	6	5
2112.838698	0.0771	7	6
2115.671416	0.0716	8	7
2118.508084	0.0664	9	8
2121.348385	0.0632	10	9
2124.191968	0.0525	11	10
2127.038475	0.0396	12	11
2129.887535	0.0361	13	12
2132.738751	0.0455	14	13
2135.591675	0.0360	15	14
2138.445899	0.0290	16	15
2141.300995	0.0374	17	16
2144.156507	0.0548	18	17
2147.011932	0.0345	19	18
2149.866873	0.0399	20	19
2152.720876	0.0791	21	20
2155.573425	0.0977	22	21
2158.424031	0.0658	23	22
2161.272363	0.1059	24	23
2164.117929	0.1731	25	24
2166.960116	0.0921	26	25
2169.798748	0.1141	27	26
2172.633214	0.0428	28	27
2175.463300	0.0656	29	28
2178.288633	0.1957	30	29
2181.108512	0.1029	31	30
2183.923102	0.3062	32	31

THE RMS DEV = 0.000216 FOR 135 LINES

Table 216

03(1E)1-02(2E)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2661.534025	0.8195	12	13
2664.670370	0.1618	11	12
2667.774972	0.3040	10	11
2673.893843	0.0599	8	9
2676.909873	0.7672	7	8
2682.854984	0.9498	5	6
2685.788184	0.5867	4	5
2688.695055	0.2260	3	4
2691.575741	0.1407	2	3
2694.431262	0.3722	1	2
2713.705181	0.7801	5	4
2716.353942	0.1803	6	5
2721.570528	0.7873	8	7
2724.136046*	1.1846	9	8

THE RMS DEV = 0.000562 FOR 13 LINES

Table 217

03(1F)1-02(2F)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2663.779522	0.4824	12	13
2666.561554	0.4701	11	12
2669.343454	0.4935	10	11
2672.124996	0.9838	9	10
2674.910065	0.3757	8	9
2677.696612	0.0131	7	8
2680.484884	0.2168	6	7
2683.274753	0.0700	5	6
2686.067377	0.1717	4	5
2688.861414	0.5010	3	4
2691.658548	0.4718	2	3
2694.458059	0.4961	1	2
2714.120542*	1.3122	5	4

THE RMS DEV = 0.000466 FOR 11 LINES

Table 218

03(1E)1-02(0)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2651.277989*	1.4815	20	21
2654.529204	0.0017	19	20
2657.765322	0.3991	18	19
2660.984454	0.8934	17	18
2664.187490	0.1377	16	17
2667.370618	0.3668	15	16
2670.535462	0.0247	14	15
2676.804108	0.0052	12	13
2682.987178	0.2771	10	11
2686.044554	0.9114	9	10
2689.080493	0.2759	8	9
2692.090987	0.1622	7	8
2695.077541	0.2078	6	7
2698.039331	0.2181	5	6
2700.975589	0.5420	4	5
2703.886442	0.6798	3	4
2718.048867	0.3717	1	0
2720.801600	0.8437	2	1
2723.525826	0.3013	3	2
2726.224563	0.0446	4	3
2731.540912	0.2098	6	5
2734.159245	0.1455	7	6
2736.751167	0.0707	8	7
2741.856604	0.0767	10	9
2746.859574	0.4014	12	11
2749.324111	0.2109	13	12
2751.764116	0.3129	14	13
2754.180545	0.2751	15	14
2758.944625	0.0933	17	16
2761.293184	0.2341	18	17
2763.620592	0.1814	19	18
2765.927844	0.4456	20	19
2768.214055	0.1569	21	20
2772.728972	0.1692	23	22
2774.957852	0.3911	24	23
2779.362613	0.6534	26	25
2781.539171	0.3400	27	26
2783.698220	0.3377	28	27

THE RMS DEV = 0.000386 FOR 37 LINES

Table 219

03(1F)1-02(0)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2715.336352	0.2360	10	10
2715.354382	0.0893	11	11
2715.430451	0.4152	14	14
2715.598984	0.0579	18	18
2715.654919	0.0156	19	19
2715.716828	0.0309	20	20
2715.785004	0.1773	21	21
2715.859120	0.4022	22	22
2715.938256	0.0526	23	23

THE RMS DEV = 0.000220 FOR 9 LINES

Table 220

03(1E)1-01(1E)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
3327.601553	0.2895	26	27
3330.782605*	1.1662	25	26
3333.947833	0.0629	24	25
3340.221575	0.1211	22	23
3343.332075	0.3065	21	22
3349.501163	0.1990	19	20
3352.560713	0.2097	18	19
3355.604183	0.4071	17	18
3358.631284	0.1767	16	17
3361.643094	0.2766	15	16
3364.639370	0.1522	14	15
3367.620720	0.1106	13	14
3370.587373	0.0927	12	13
3373.539553	0.0495	11	12
3376.477571	0.0364	10	11
3379.401616	0.0060	9	10
3382.311882	0.0629	8	9
3385.208619	0.1128	7	8
3388.091995	0.1437	6	7
3390.962119	0.1886	5	6
3393.819153	0.2008	4	5

Table 220 continued

03(1E)1-01(1E)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
3396.663094	0.2703	3	4
3399.495057	0.6598	2	3
3402.313392	0.9112	1	2
3413.454837	0.0081	2	1
3416.207549	0.0215	3	2
3418.946854	0.0467	4	3
3421.672530	0.0458	5	4
3424.384384	0.0388	6	5
3427.082182	0.0330	7	6
3429.765654	0.0264	8	7
3432.434497	0.0100	9	8
3435.088400	0.0090	10	9
3437.727022	0.0305	11	10
3440.350001	0.0542	12	11
3442.956991	0.0449	13	12
3445.547560	0.0357	14	13
3450.677740	0.0452	16	15
3453.216517	0.0341	17	16
3455.737145	0.0285	18	17
3458.239193	0.0085	19	18
3460.722191	0.0102	20	19
3463.185714	0.0579	21	20
3465.629207	0.0330	22	21
3468.052242	0.0426	23	22
3470.454622	0.0776	24	23
3472.835554	0.0363	25	24
3475.194838	0.0592	26	25
3477.531833	0.0809	27	26
3479.846340	0.1827	28	27
3482.137846	0.3733	29	28
3484.406163	0.4706	30	29
3486.651050	0.3624	31	30
3488.872334	0.1143	32	31
3491.068212	0.5250	33	32
3493.241651	0.9863	34	33

THE RMS DEV = 0.000266 FOR 55 LINES

Table 221

03(1F)1-01(1F)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
3320.311678	0.5740	30	31
3323.247773	0.1281	29	30
3326.166080	0.1757	28	29
3329.068321	0.2215	27	28
3334.830474	0.2208	25	26
3340.544350	0.1006	23	24
3343.386723	0.1356	22	23
3346.220822	0.1144	21	22
3351.867411*	1.0479	19	20
3354.684103	0.1327	18	19
3357.495143	0.1132	17	18
3360.302507	0.1173	16	17
3363.106832	0.0987	15	16
3365.908751	0.0718	14	15
3368.708869	0.0844	13	14
3371.507593	0.0439	12	13
3374.305433	0.0148	11	12
3377.102772	0.0138	10	11
3379.899952	0.0461	9	10
3382.697289	0.0666	8	9
3385.494990	0.1254	7	8
3388.293432	0.0617	6	7
3391.092466	0.2017	5	6
3393.892568	0.2088	4	5
3396.693746	0.1786	3	4
3402.298259*	1.3166	1	2
3413.524074	0.0250	2	1
3416.332568	0.0095	3	2
3419.141717	0.0455	4	3
3421.951261	0.0210	5	4
3424.761049	0.0179	6	5
3427.570772	0.0036	7	6
3430.380158	0.0093	8	7
3433.188811	0.0493	9	8
3435.996417	0.0510	10	9
3438.802432	0.1287	11	10
3441.606556	0.1073	12	11
3444.408118	0.1342	13	12
3447.206600	0.1530	14	13
3450.001410	0.1270	15	14
3452.791788	0.1301	16	15
3455.577018	0.1308	17	16
3458.356329	0.0879	18	17
3461.128755	0.0867	19	18
3463.893391	0.0791	20	19
3466.649206	0.0671	21	20

Table 221 continued

03(1F)1-01(1F)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
3469.397231*	2.0880	22	21
3472.129819	0.0705	23	22
3474.852252	0.0125	24	23
3477.560898	0.0637	25	24
3480.254337	0.1052	26	25
3482.930838	0.0693	27	26
3485.589166	0.0931	28	27
3488.227445	0.1698	29	28
3490.844015	0.2262	30	29
3493.437593	0.2358	31	30
3496.004555	0.5953	32	31
3498.547376*	1.5796	33	32
3501.061178*	3.6963	34	33
3503.538608	0.1798	35	34

THE RMS DEV = 0.000162 FOR 55 LINES

Table 222

03(3)1-02(2)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2738.034246	0.0457	3	2
2740.780596	0.0397	4	3
2743.512105	0.0533	5	4
2746.229015	0.0100	6	5
2748.930898	0.1762	7	6

THE RMS DEV = 0.000087 FOR 5 LINES

Table 223

03(3F)1-02(2F)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2668.104560*	2.1774	20	21
2671.143971	0.4185	19	20
2674.172667*	1.2232	18	19
2677.196575	0.3144	17	18
2680.212488	0.7317	16	17
2683.217426	0.3346	15	16
2686.215277	1.0441	14	15
2692.176974	0.7935	12	13
2695.140396	0.1882	11	12
2698.093326	0.0199	10	11
2701.034443	0.5183	9	10
2703.962921	0.8620	8	9
2706.879527*	2.1602	7	8
2754.299385*	1.0972	9	8
2756.959826	0.0729	10	9
2759.607932	0.1115	11	10
2762.242968	0.0454	12	11
2767.474771	0.0455	14	13
2770.072278	0.1843	15	14
2772.658713	0.1475	16	15
2775.233375	0.2912	17	16
2777.798578	0.2125	18	17
2782.899129	0.1566	20	19
2785.438029	0.9859	21	20
2787.967475	0.0032	22	21
2790.491300	0.2473	23	22
2793.011784*	1.4984	24	23
2795.524864	0.0554	25	24
2798.035997	0.3150	26	25

THE RMS DEV = 0.000459 FOR 23 LINES

Table 224

03(3E)1-02(2E)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2667.370618*	1.1288	20	21
2670.535462*	0.9544	19	20
2676.804108*	4.8031	17	18
2682.987178*	0.8968	15	16
2689.080493*	6.9571	13	14
2692.090987*	7.3159	12	13
2695.077541*	1.9402	11	12
2698.039331	0.5487	10	11
2700.998052	1.0263	9	10
2703.938368	0.8530	8	9
2706.860197*	1.5828	7	8
2709.775125*	4.9188	6	7
2712.665907*	2.7745	5	6
2754.281207*	1.2073	9	8
2756.934556	0.2949	10	9
2759.570181	0.1269	11	10
2762.188209	0.0527	12	11
2767.368770	0.5589	14	13
2772.472687	0.2792	16	15
2774.994318	0.3173	17	16
2777.493337	0.1927	18	17
2779.971060	0.2590	19	18

THE RMS DEV = 0.000503 FOR 11 LINES

Table 225

02(2E)0-00(0)0 TGHCAXS

observed	10^3(o-c)	J′	J″
1343.043472	0.2335	26	27
1347.654465	0.1831	24	25
1357.222661	0.0417	20	21
1367.204304	0.2290	16	17
1369.756612	0.1076	15	16
1374.923166	0.5781	13	14
1456.255616*	1.6915	15	14
1462.311613	0.0680	17	16
1465.369952	0.7875	18	17
1468.448797	0.4512	19	18
1471.550192	0.1993	20	19
1474.673894	1.0841	21	20
1480.997417	0.7991	23	22
1484.197638	0.2958	24	23
1487.423587	0.3108	25	24
1490.676282	0.3509	26	25

THE RMS DEV = 0.000482 FOR 15 LINES

Table 226

02(0)0-00(0)0 HCAXS HCAYS

observed	10^3(o-c)	J′	J″
1328.168768	0.2084	25	26
1330.794820	0.2324	24	25
1333.416984	0.0616	23	24
1336.036494	0.2283	22	23
1338.654574	0.2320	21	22
1341.272178	0.1197	20	21
1343.889544	0.1259	19	20
1346.507881	0.0163	18	19
1349.128248	0.1552	17	18
1351.752057	0.0067	16	17
1354.379881	0.0620	15	16
1359.651705	0.0249	13	14
1364.951627	0.0723	11	12
1367.614249	0.0897	10	11
1370.286164	0.0807	9	10
1372.968493	0.0121	8	9
1375.661595	0.0312	7	8
1378.365484	0.4866	6	7
1381.082153	0.0474	5	6
1383.810678	0.0258	4	5
1386.551665	0.0173	3	4
1389.305277	0.1549	2	3
1392.072212	0.0387	1	2
1394.852075	0.1125	0	1
1400.450964	0.2988	1	0
1403.269453	0.0764	2	1
1406.100897	0.1651	3	2
1408.944496	0.0581	4	3
1411.800159	0.0346	5	4
1414.667264	0.0801	6	5
1417.545619	0.0456	7	6
1420.434129	0.0829	8	7
1423.332588	0.0029	9	8
1426.240047	0.1026	10	9
1429.155400	0.0706	11	10
1432.078312	0.0343	12	11
1435.007337	0.0797	13	12
1437.942018	0.1352	14	13
1440.880434	0.1881	15	14
1443.822548	0.0058	16	15
1446.766428	0.0930	17	16
1449.711318	0.1029	18	17
1452.655958	0.1430	19	18
1455.599284	0.1476	20	19
1458.540164	0.1451	21	20
1461.477558	0.1122	22	21
1464.410630	0.1241	23	22
1467.338181	0.3077	24	23
1470.259165	0.2577	25	24

Table 226 continued

02(0)0-00(0)0 HCAXS HCAYS

observed	10^3(o-c)	J′	J″
1473.172702	0.1254	26	25
1476.079005	0.0604	27	26
1328.168942	0.0344	25	26
1330.794565	0.0225	24	25
1333.416974	0.0516	23	24
1336.036673	0.0493	22	23
1338.654725	0.0810	21	22
1341.272033	0.0252	20	21
1343.889311	0.1070	19	20
1346.507737	0.1276	18	19
1349.128250	0.1532	17	18
1351.751903	0.1472	16	17
1354.379693	0.1259	15	16
1370.285982	0.2627	9	10
1375.661276	0.2877	7	8
1381.082144	0.0564	5	6
1383.810479	0.1731	4	5
1386.551462	0.1856	3	4
1389.305045	0.3869	2	3
1392.072026	0.1472	1	2
1394.851755	0.2074	0	1
1400.450757	0.0918	1	0
1403.269243	0.1335	2	1
1406.100707	0.0248	3	2
1408.944167	0.2708	4	3
1411.799834	0.2903	5	4
1414.667424	0.0798	6	5
1417.545420	0.1533	7	6
1420.433932	0.2799	8	7
1423.332846	0.2609	9	8
1429.155121	0.3496	11	10
1432.077736	0.5416	12	11
1435.007284	0.1327	13	12
1437.941741	0.1417	14	13
1440.880327	0.2951	15	14
1443.822326	0.2161	16	15
1446.766277	0.2440	17	16
1449.711164	0.2569	18	17
1452.655870	0.2310	19	18
1455.599159	0.2726	20	19
1458.540071	0.2381	21	20
1461.477419	0.2512	22	21
1464.410285	0.2208	23	22
1467.337690	0.1832	24	23
1470.258744	0.1632	25	24
1473.172756	0.0714	26	25
1476.078981	0.0364	27	26
1481.865256	0.2254	29	28
1484.745272	0.2827	30	29
1490.474639	0.2220	32	31

THE RMS DEV = 0.000181 FOR 99 LINES

Table 227

02(0)1-00(0)0 observed	HCNBKS 10^3(o-c)	HCNBJS J′	J″
3325.725862	0.2230	31	32
3328.978021	0.1904	30	31
3332.204488	0.1422	29	30
3338.583877	0.2885	27	28
3344.867030	0.0996	25	26
3347.973252	0.3162	24	25
3351.057470	0.0119	23	24
3354.119582	0.0605	22	23
3357.160660	0.0980	21	22
3360.181529	0.0748	20	21
3363.183274	0.1425	19	20
3366.166725	0.1530	18	19
3369.132968	0.1839	17	18
3372.082958	0.1670	16	17
3375.017778	0.1619	15	16
3377.938409	0.1402	14	15
3380.845834	0.1024	13	14
3383.741039	0.0900	12	13
3386.624833	0.0161	11	12
3389.498203	0.0276	10	11
3392.361795	0.0062	9	10
3395.216350	0.0535	8	9
3398.062521	0.0982	7	8
3400.900878	0.1326	6	7
3403.731900	0.1638	5	6
3406.555992	0.1949	4	5
3409.373486	0.2239	3	4
3412.184662	0.2223	2	3
3414.989679	0.2040	1	2
3417.788624	0.1762	0	1
3423.368256	0.1190	1	0
3426.148761	0.0679	2	1
3428.922746	0.0482	3	2
3431.689927	0.0456	4	3
3434.449961	0.0266	5	4
3437.202352	0.0321	6	5
3439.946595	0.0337	7	6
3442.682102	0.0084	8	7
3445.408136	0.0056	9	8
3448.123869	0.0914	10	9
3450.828736	0.0030	11	10
3453.521565	0.0079	12	11
3456.201474	0.0057	13	12
3458.867457	0.0116	14	13
3461.518440	0.0207	15	14
3464.153299	0.0162	16	15
3466.770938	0.0362	17	16
3469.370155	0.0267	18	17
3471.949831	0.0165	19	18
3474.508868	0.0404	20	19
3477.046090	0.0248	21	20
3479.560440	0.0293	22	21

Table 227 continued

02(0)1-00(0)0 observed	HCNBKS 10^3(o-c)	HCNBJS J′	J″
3482.051077	0.0354	23	22
3484.516843	0.0110	24	23
3486.956954	0.1063	25	24
3489.370807	0.0962	26	25
3491.757610	0.1088	27	26
3494.116663	0.2762	28	27
3496.447652	0.4393	29	28
3498.750917	0.1232	30	29
3501.024615	0.1360	31	30
3505.485844	0.2068	33	32
3302.265321	0.0500	38	39
3309.090827*	1.3792	36	37
3312.468521	0.2724	35	36
3322.449180	0.1206	32	33
3325.725895	0.1900	31	32
3328.977670	0.1605	30	31
3332.204541	0.0892	29	30
3338.584138	0.0275	27	28
3344.867139	0.0093	25	26
3347.973189	0.3792	24	25
3351.057540	0.0819	23	24
3354.119648	0.1265	22	23
3357.160721	0.1590	21	22
3360.181623	0.1688	20	21
3363.183138	0.0065	19	20
3366.166800	0.2280	18	19
3369.133006	0.2219	17	18
3383.741171	0.2220	12	13
3406.555993	0.1939	4	5
3417.788610	0.1902	0	1
3423.368268	0.1070	1	0
3434.451238*	1.2503	5	4
3458.867555	0.1096	14	13
3474.508808	0.0195	20	19
3477.046030	0.0351	21	20
3479.560418	0.0513	22	21
3482.051004	0.0375	23	22
3484.516785	0.0690	24	23
3486.956980	0.0803	25	24
3489.370804	0.0992	26	25
3491.757624	0.0948	27	26
3494.116830	0.1092	28	27
3496.447976	0.1153	29	28
3498.750702	0.0917	30	29
3501.024586	0.1650	31	30
3505.485553	0.0841	33	32
3507.672222	0.1154	34	33
3509.829848	0.0300	35	34
3511.957750	0.3426	36	35
3514.057266	0.0551	37	36
3516.127541	0.2912	38	37
3518.168309	0.0017	39	38

THE RMS DEV = 0.000145 FOR 101 LINES

Table 228

02(2E)1-00(0)0 HCNBJS HCNBKS observed	10^3(o-c)	J′	J″
3370.039384	0.5457	22	23
3372.864315	0.5860	21	22
3375.693812*	1.6754	20	21
3378.533876	0.3837	19	20
3381.379463	0.4126	18	19
3387.082585	0.0420	16	17
3389.939976	0.8387	15	16
3392.797277	0.2867	14	15
3395.657174	0.3780	13	14
3398.515389	0.4516	12	13
3401.372969	0.7781	11	12
3460.131752*	2.8075	9	8
3462.854216*	1.1847	10	9
3465.576846	0.8171	11	10
3468.296108	0.3407	12	11
3471.013335	0.8023	13	12
3473.727086	0.3456	14	13
3476.440606	0.6654	15	14
3479.153494	0.4592	16	15
3481.866951	0.0047	17	16
3484.582846	0.2393	18	17
3487.300375	0.5677	19	18
3490.023073	0.2121	20	19
3492.750047	0.8148	21	20
3495.481002	0.1243	22	21
3498.218184	0.3708	23	22
3500.962745	0.1998	24	23
3503.714302	0.3406	25	24
3506.475670*	1.5203	26	25
3509.240971	0.8972	27	26
3512.020401*	2.3003	28	27
3339.693291	0.6609	33	34
3345.100816	0.0524	31	32
3347.823619	0.2384	30	31
3350.559475	0.1133	29	30
3356.068394	0.0790	27	28
3358.840809	0.0538	26	27
3364.419797	0.1379	24	25
3370.040086	0.1562	22	23
3372.864717*	0.9880	21	22
3375.695612	0.1245	20	21
3378.534476	0.2162	19	20
3381.379210	0.1596	18	19
3387.082724	0.1810	16	17
3389.939354	0.2167	15	16
3392.797990	0.4262	14	15

Table 228 continued

02(2E)1-00(0)0 HCNBJS HCNBKS observed	10^3(o-c)	J′	J″
3395.656724	0.0719	13	14
3398.515908	0.0673	12	13
3401.373516	0.2311	11	12
3404.229927	0.3113	10	11
3407.082715	0.1109	9	10
3409.932779	0.8462	8	9
3412.776623	0.2655	7	8
3418.455047*	3.8697	5	6
3449.170340*	1.2389	5	4
3451.917434	0.7671	6	5
3454.661307	0.4089	7	6
3457.397760	0.1204	8	7
3460.128913	0.0314	9	8
3462.855143	0.2577	10	9
3465.577611	0.0521	11	10
3468.296492	0.0432	12	11
3471.012478	0.0546	13	12
3473.726565	0.1753	14	13
3476.439860	0.0805	15	14
3479.152927	0.1077	16	15
3481.866835	0.1112	17	16
3484.582486	0.1206	18	17
3487.300846	0.0967	19	18
3490.022801	0.0598	20	19
3492.749230	0.0021	21	20
3495.480799	0.0786	22	21
3498.218547	0.0078	23	22
3500.962952	0.0071	24	23
3503.714727	0.0843	25	24
3506.474146	0.0036	26	25
3509.242044	0.1757	27	26
3512.018057	0.0436	28	27
3514.802902	0.1474	29	28
3517.596564	0.2566	30	29
3520.399116	0.3135	31	30
3523.210128	0.6799	32	31
3526.023161*	7.6509	33	32
3528.859573	0.3417	34	33
3531.695252	0.5459	35	34
3534.540526	0.3299	36	35
3540.252018	0.9881	38	37
3545.988639	0.0965	40	39

THE RMS DEV = 0.000392 FOR 79 LINES

Table 229

02(0)1-01(1F)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2706.005157	0.0565	28	28
2706.767391*	1.8756	27	27
2707.487714	0.3206	26	26
2708.821396	0.1151	24	24
2709.433287	0.0899	23	23
2710.010171	0.5822	22	22
2710.551398	0.1252	21	21
2711.534294	0.1568	19	19
2711.977423	0.1567	18	18
2712.389696	0.1425	17	17
2712.771267	0.7803	16	16
2713.125932	0.1356	15	15
2713.452766	0.9287	14	14
2713.751296	0.1131	13	13
2714.273702	0.0559	11	11
2714.498611	0.0410	10	10
2714.700402	0.0059	9	9
2714.879843	0.0320	8	8
2715.037677	0.0087	7	7
2715.174374	0.0610	6	6
2715.290667	0.0091	5	5
2715.386498	0.3123	4	4
2715.463200	0.0751	3	3
2715.520261	0.0955	2	2
2715.557861	0.4225	1	1

THE RMS DEV = 0.000313 FOR 23 LINES

Table 230

02(0)1-01(1E)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2621.113329	1.0185	31	32
2624.341079*	1.8370	30	31
2627.543591*	1.4479	29	30
2633.876654	0.0796	27	28
2637.008589	0.0978	26	27
2640.117734	0.2076	25	26
2643.204939	0.0718	24	25
2646.270369	0.2832	23	24
2649.314431	0.1220	22	23
2652.338510	0.1798	21	22
2655.343163	0.1491	20	21
2658.329530	0.2459	19	20
2661.298312	0.2020	18	19
2664.250681	0.1898	17	18
2667.187644	0.2010	16	17
2670.110221	0.2402	15	16
2673.019298	0.1912	14	15
2675.915968	0.1712	13	14
2678.801128	0.1396	12	13
2681.675676	0.1040	11	12
2684.540422	0.0403	10	11
2687.396219	0.0296	9	10
2690.243770	0.0708	8	9
2693.083452	0.0919	7	8
2695.916138	0.1440	6	7
2698.742214	0.1820	5	6
2701.562088	0.2032	4	5
2704.375983	0.3118	3	4
2707.184409	0.2473	2	3
2709.987255	0.2918	1	2
2721.145090	0.0019	2	1
2723.921005	0.5469	3	2
2726.689785	0.0403	4	3
2732.208537	0.0485	6	5
2734.956977	0.0160	7	6
2737.697398	0.0162	8	7
2740.429094	0.0276	9	8
2743.151242	0.0140	10	9
2745.863108	0.0129	11	10
2748.563767	0.0036	12	11
2751.252225	0.0017	13	12
2753.927460	0.0247	14	13
2756.588568	0.0836	15	14
2759.234087	0.0338	16	15
2761.863257	0.0094	17	16
2764.474782	0.0017	18	17

Table 230 continued

02(0)1-01(1E)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2767.067503	0.0186	19	18
2769.640336	0.0295	20	19
2772.190137*	2.0807	21	20
2774.722001	0.0280	22	21
2777.228745	0.0646	23	22
2779.711749	0.1074	24	23
2782.169733	0.0449	25	24
2784.602058	0.1441	26	25
2787.008467	0.0637	27	26
2789.387880	0.2372	28	27
2791.737979*	2.5211	29	28
2794.065191	0.1189	30	29
2796.362052	0.2119	31	30
2798.630963	0.1957	32	31
2800.871971	0.1084	33	32
2803.084175	0.1309	34	33
2805.266301*	2.1719	35	34
2807.426247*	1.8549	36	35
2809.552955	0.8273	37	36

THE RMS DEV = 0.000232 FOR 59 LINES

Table 231

02(2F)1-01(1E)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2729.934297	0.0351	10	10
2729.685562	0.0126	13	13
2729.373497	0.0031	16	16
2729.129772	0.0547	18	18
2728.393966	0.0455	23	23
2728.224419	0.2648	24	24
2727.865196*	1.4081	26	26
2727.671902	0.1256	27	27
2727.265465	0.1562	29	29

THE RMS DEV = 0.000121 FOR 8 LINES

Table 232

02(2E)1-01(1F)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2729.421307	0.1082	9	9
2729.229967	0.0430	10	10
2728.799712	0.0115	12	12
2728.561198	1.0487	13	13
2728.047418	0.1002	15	15
2727.772479	0.6790	16	16
2727.485797	0.1991	17	17
2727.189841	0.0966	18	18
2726.885376	0.1106	19	19
2726.573367	0.1952	20	20
2726.254564	0.1245	21	21
2725.930094	0.0968	22	22
2725.600836	0.1257	23	23
2725.267528	0.1565	24	24
2724.930781	0.0908	25	25
2724.591412	0.1309	26	26
2724.249865	0.2002	27	27
2723.561424	0.0282	29	29
2723.215141	0.1540	30	30
2722.867938	0.1618	31	31
2722.519508	0.3592	32	32
2722.170385	0.1981	33	33
2721.467264*	1.2138	35	35

THE RMS DEV = 0.000304 FOR 22 LINES

Table 233

02(2E)1-01(1E)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2651.360440	0.2838	27	28
2654.112566	0.6327	26	27
2656.875425	0.0989	25	26
2659.650689	0.2689	24	25
2662.437626	0.0269	23	24
2665.234842	0.1247	22	23
2668.041563	0.0658	21	22
2670.856331	0.7161	20	21
2673.680395	0.0173	19	20
2676.510718	0.1296	18	19
2679.346676	0.1403	17	18
2682.187343	0.1480	16	17
2685.031545	0.0429	15	16
2687.878487	0.0852	14	15
2690.726934	0.0729	13	14
2693.575893	0.0129	12	13
2696.424565	0.0628	11	12
2702.116929	0.0630	9	10
2704.959120	0.1083	8	9
2707.797754	0.0592	7	8
2710.631978	0.1210	6	7
2716.285332	0.2086	4	5
2719.103595	0.1673	3	4
2721.915595	0.2225	2	3
2735.877786*	1.5368	2	1
2738.648058	0.1324	3	2
2741.413094	0.0998	4	3
2744.171782	0.0960	5	4
2746.924577	0.2715	6	5
2749.671269	0.0386	7	6
2752.412928	0.0170	8	7
2755.149868	0.0010	9	8
2760.612270	0.2188	11	10
2763.338585	0.0700	12	11
2766.063201	0.0866	13	12
2768.786638	0.1417	14	13
2771.509855	0.1506	15	14
2774.233765	0.1078	16	15
2776.959187	0.1239	17	16
2782.418826	0.1760	19	18
2785.154394	0.0048	20	19
2787.895329	0.0557	21	20
2790.642574	0.1366	22	21
2793.396317	0.0059	23	22
2796.157725	0.0073	24	23
2798.923644*	3.6263	25	24

Table 233 continued

02(2E)1-01(1E)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2801.704873	0.5754	26	25
2804.492771	0.0907	27	26
2807.289713	0.4342	28	27
2810.095192	0.2662	29	28
2812.911276	0.0608	30	29
2815.736150	0.7924	31	30

THE RMS DEV = 0.000239 FOR 50 LINES

Table 234

02(2F)1-01(1F)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2640.936247*	2.3477	28	29
2644.290438*	1.4270	27	28
2647.620710	0.0620	26	27
2650.934560	0.7381	25	26
2654.228888	0.7844	24	25
2657.503635	0.0749	23	24
2660.760327	0.1929	22	23
2663.997761	0.0066	21	22
2667.216747	0.3443	20	21
2670.415917	0.0635	19	20
2673.596461	0.0186	18	19
2676.757735	0.0059	17	18
2679.900248	0.4669	16	17
2683.022571	0.0326	15	16
2686.125986	0.0452	14	15
2689.209908	0.0198	13	14
2692.274456	0.0172	12	13
2695.319404	0.0082	11	12
2698.344776	0.0108	10	11
2701.350450	0.0509	9	10
2704.336388	0.1044	8	9
2707.302671	0.0279	7	8
2710.248941	0.1167	6	7
2713.175355	0.1511	5	6
2716.081817	0.1638	4	5
2718.968497	0.0786	3	4
2721.834762	0.0071	2	3
2735.861186*	1.4884	2	1
2738.607155	0.1028	3	2
2741.330983	0.1075	4	3
2744.034163	0.0845	5	4
2746.716676	0.0809	6	5
2749.378430	0.0708	7	6
2752.018793	0.5110	8	7
2754.639578	0.2149	9	8
2757.238266	0.2031	10	9
2759.816459	0.0958	11	10
2762.373433	0.1199	12	11
2764.909302	0.0935	13	12
2767.423870	0.1446	14	13
2769.917115	0.2271	15	14
2772.389123	0.1865	16	15
2774.839646	0.2021	17	16
2777.268699	0.1901	18	17
2779.679768*	3.4047	19	18
2782.062013	0.1881	20	19

Table 234 continued

02(2F)1-01(1F)0 TGHCNBKS

observed	10^3(o-c)	J′	J″
2784.426194	0.1392	21	20
2786.768535	0.1546	22	21
2789.089109	0.0913	23	22
2791.387877	0.0820	24	23
2793.664295	0.1079	25	24
2795.918839	0.1145	26	25
2798.151295	0.0807	27	26
2800.361351	0.2472	28	27
2802.549400	0.1495	29	28
2804.715326	0.1681	30	29
2806.858399	0.0477	31	30
2808.978861	0.1965	32	31
2813.153037	0.3187	34	33

THE RMS DEV = 0.000218 FOR 55 LINES

Table 235

100-000 HCNBNX HCNBOX

observed	10^3(o-c)	J′	J″
3177.231156	0.4037	36	37
3180.643153	0.2942	35	36
3184.037921	0.3536	34	35
3187.417659	0.0686	33	34
3190.781241	0.1026	32	33
3194.128489	0.0610	31	32
3197.459678	0.1596	30	31
3200.774431	0.0991	29	30
3204.072890	0.0988	28	29
3207.354840	0.0203	27	28
3210.620540	0.1987	26	27
3213.869395	0.1147	25	26
3217.101793	0.2314	24	25
3220.317247	0.1365	23	24
3223.516046	0.1929	22	23
3226.697866	0.1505	21	22

Table 235 continued

100-000 HCNBNX HCNBOX

observed	10^3(o-c)	J′	J″
3229.862801	0.1763	20	21
3233.010722	0.2139	19	20
3236.141477	0.1835	18	19
3239.255096	0.1868	17	18
3242.351453	0.1689	16	17
3245.430517	0.1696	15	16
3257.571956	0.1315	11	12
3260.563586	0.0367	10	11
3263.537330	0.0447	9	10
3266.493245	0.0169	8	9
3269.431294	0.0168	7	8
3272.351437	0.0302	6	7
3275.253585	0.0463	5	6
3278.137670	0.0674	4	5
3283.851442	0.0747	2	3
3286.681084	0.0227	1	2
3289.492270	0.0208	0	1
3295.059657	0.1037	1	0
3297.815583	0.1216	2	1
3300.552963	0.1579	3	2
3303.271665	0.1418	4	3
3305.971703	0.1478	5	4
3308.652986	0.1452	6	5
3311.315450	0.1295	7	6
3313.959018	0.0830	8	7
3316.583704	0.0783	9	8
3319.189394	0.0596	10	9
3321.776038	0.0344	11	10
3324.343639	0.0628	12	11
3329.421228	0.0225	14	13
3331.931214	0.0634	15	14
3339.344708	0.1417	18	17
3341.777155	0.0360	19	18
3344.189986	0.0121	20	19
3346.583212	0.0065	21	20
3348.956808	0.0071	22	21
3351.310720	0.0260	23	22
3353.644804	0.0432	24	23
3355.959270	0.0590	25	24
3360.528427	0.0540	27	26
3362.783169	0.0945	28	27
3365.017832	0.0390	29	28
3367.232536	0.0544	30	29
3369.427135	0.0409	31	30
3371.601706	0.1209	32	31
3373.756104	0.1944	33	32
3375.889984	0.0394	34	33
3378.003840	0.0432	35	34

Table 235 continued

100-000 HCNBNX HCNBOX

observed	10^3(o-c)	J′	J″
3380.096836	0.6101	36	35
3382.171210	0.5400	37	36
3384.223582	0.0686	38	37
3194.128157	0.2709	31	32
3197.459357	0.1613	30	31
3200.774135	0.1968	29	30
3204.072509	0.2821	28	29
3207.354760	0.0596	27	28
3210.620252	0.0892	26	27
3213.869299	0.0187	25	26
3217.101599	0.0374	24	25
3220.317123	0.0125	23	24
3223.515858	0.0049	22	23
3226.697731	0.0155	21	22
3229.862636	0.0113	20	21
3233.010545	0.0369	19	20
3236.141322	0.0285	18	19
3239.254914	0.0048	17	18
3242.351292	0.0079	16	17
3245.430358	0.0106	15	16
3251.536265	0.0061	13	14
3254.562860	0.1079	12	13
3257.572100	0.0124	11	12
3260.563558	0.0087	10	11
3263.537299	0.0137	9	10
3266.493223	0.0050	8	9
3269.431305	0.0058	7	8
3272.351454	0.0132	6	7
3275.253624	0.0073	5	6
3278.137722	0.0154	4	5
3283.851502	0.0147	2	3
3286.681064	0.0027	1	2
3289.492299	0.0081	0	1
3295.059574	0.0207	1	0
3297.815468	0.0066	2	1
3300.552829	0.0239	3	2
3303.271522	0.0011	4	3
3305.971569	0.0138	5	4
3308.652858	0.0172	6	5
3311.315341	0.0205	7	6
3313.958946	0.0110	8	7
3316.583646	0.0203	9	8
3319.189360	0.0256	10	9
3321.776019	0.0154	11	10
3324.343587	0.0108	12	11
3329.421228	0.0225	14	13
3331.931165	0.0144	15	14
3334.421801	0.0251	16	15

Table 235 continued

100-000 HCNBNX HCNBOX

observed	10^3(o-c)	J′	J″
3336.892995	0.0319	17	16
3339.344795	0.0547	18	17
3341.777253	0.0619	19	18
3344.190052	0.0538	20	19
3346.583279	0.0604	21	20
3348.956862	0.0611	22	21
3351.310769	0.0750	23	22
3353.644789	0.0582	24	23
3355.959273	0.0620	25	24
3360.528524	0.1510	27	26
3362.783259	0.1845	28	27
3365.017851	0.0580	29	28
3367.232608	0.1264	30	29
3369.427533	0.4389	31	30
3371.601888	0.3029	32	31
3373.756380	0.4704	33	32
3375.890119	0.0955	34	33

THE RMS DEV = 0.000144 FOR 129 LINES

Table 236

01(1F)1-000 $H^{13}C^{15}N$ BKS BN BM

observed	10^3(o-c)	J′	J″
2725.804008	0.8837	40	40
2726.071988	0.3285	39	39
2726.334997*	3.0620	38	38
2726.828055	0.0241	36	36
2727.065248	0.4835	35	35
2727.293878	0.0836	34	34
2727.515808	0.0610	33	33
2727.730117	0.0752	32	32
2727.937304	0.0658	31	31
2728.137283	0.0657	30	30
2728.515890	0.0893	28	28
2728.694316	0.4445	27	27
2728.865917	0.6847	26	26
2727.937666	0.2958	31	31
2728.137668	0.3193	30	30

Table 236 continued

01(1F)1-000 $H^{13}C^{15}N$ BKS BN BM

observed	10^3(o-c)	J′	J″
2728.330730	0.5336	29	29
2728.516011	0.0311	28	28
2728.694526	0.2346	27	27
2728.866331	0.2707	26	26
2729.030042*	1.5205	25	25
2729.189843	0.1419	24	24
2729.341213	0.1416	23	23
2729.485759	0.0309	22	22
2729.623830	0.1066	21	21
2729.754976	0.1283	20	20
2729.880174	0.2542	19	19
2729.998579	0.3646	18	18
2730.110189	0.1587	17	17
2730.215249	0.1595	16	16
2730.314558	0.1705	15	15
2730.407123	0.1193	14	14
2730.493414	0.1232	13	13
2730.573391	0.1090	12	12
2730.647124	0.1192	11	11
2730.714151	0.3366	10	10
2730.775886	0.1306	9	9
2730.830925	0.0936	8	8
2730.879811	0.0756	7	7
2730.922556	0.0695	6	6
2730.959135	0.0347	5	5
2730.989565	0.0260	4	4
2731.013492	0.4784	3	3
2729.624387	0.6640	21	21
2729.754662	0.4424	20	20
2729.880490	0.5701	19	19
2729.998559	0.3453	18	18
2730.110552	0.5217	17	17
2730.215043	0.3656	16	16
2730.314431	0.0434	15	15
2730.407092	0.0886	14	14
2730.493440	0.1490	13	13
2730.573310	0.0284	12	12
2730.647202	0.1970	11	11
2730.714286	0.2013	10	10
2730.775962	0.2070	9	9
2730.830808	0.0235	8	8
2730.879678	0.0571	7	7
2730.922528	0.0415	6	6
2730.959077	0.0242	5	5
2730.989505	0.0860	4	4
2731.013455	0.5147	3	3
2731.032585	0.3389	2	2

THE RMS DEV = 0.000296 FOR 60 LINES

Table 237

01(1E)1-000 $H^{13}C^{15}N$ BKS observed	10^3(o-c)	BN J′	BM J″
2618.632761	0.0380	35	36
2622.075915*	1.0086	34	35
2625.498547	0.7598	33	34
2628.906256	0.2986	32	33
2632.294667	0.1471	31	32
2635.665909	0.0761	30	31
2639.019058	0.0894	29	30
2642.354193	0.0174	28	29
2645.671427	0.0191	27	28
2648.970647	0.0283	26	27
2652.251820	0.0592	25	26
2655.514851	0.0649	24	25
2658.759703	0.0568	23	24
2661.986342	0.0499	22	23
2665.194734	0.0600	21	22
2668.384815	0.0733	20	21
2792.057982	0.0897	24	23
2794.341642	0.0494	25	24
2796.603980	0.0331	26	25
2798.844943	0.0181	27	26
2801.064466	0.0071	28	27
2803.262466	0.0363	29	28
2805.438848	0.0520	30	29
2807.593544	0.0637	31	30
2809.726448	0.0439	32	31
2811.837586	0.0972	33	32
2813.926646	0.0091	34	33
2815.993914	0.0904	35	34
2818.038905	0.0089	36	35
2820.061709	0.1367	37	36
2822.062548	0.0101	38	37
2824.041007	0.0979	39	38
2825.996697	0.1801	40	39
2827.928856*	1.5040	41	40
2829.841271	0.0039	42	41
2648.971218	0.5993	26	27
2655.515497	0.7109	24	25
2658.759676	0.0298	23	24
2661.986581	0.2889	22	23
2665.194865	0.1910	21	22
2668.384943	0.2013	20	21
2671.556720	0.2756	19	20
2674.709948	0.2173	18	19
2677.844718	0.1694	17	18
2680.961038	0.1924	16	17
2684.058771	0.2025	15	16
2687.137845	0.1813	14	15
2690.198213	0.1362	13	14
2693.239896	0.1430	12	13

Table 237 continued

01(1E)1-000 $H^{13}C^{15}N$ BKS observed	10^3(o-c)	BN J′	BM J″
2696.262761	0.1240	11	12
2699.266863	0.1903	10	11
2702.251852	0.0483	9	10
2705.218017	0.0442	8	9
2708.165148	0.0256	7	8
2711.093140	0.0542	6	7
2714.002077	0.0526	5	6
2716.891818	0.0512	4	5
2719.762257	0.0961	3	4
2722.613479	0.0419	2	3
2725.445239	0.0726	1	2
2733.823923	0.1193	1	0
2736.578371	0.9054	2	1
2739.311603	0.1656	3	2
2742.024851	0.8039	4	3
2744.720184	0.1305	5	4
2747.394736	0.1682	6	5
2750.049274	0.1420	7	6
2752.683794	0.1143	8	7
2755.298246	0.1019	9	8
2757.892451	0.0067	10	9
2760.466598	0.0450	11	10
2763.020400	0.0388	12	11
2765.553186	0.6273	13	12
2768.066836	0.0042	14	13
2770.559415	0.0432	15	14
2773.031325	0.0124	16	15
2775.482646	0.0203	17	16
2782.712147	0.0319	20	19
2785.080206	0.0289	21	20
2787.427321	0.0811	22	21
2789.753318	0.0883	23	22
2792.058134	0.0622	24	23
2794.341786	0.0945	25	24
2796.604176	0.1628	26	25
2798.845172	0.2108	27	26
2801.064807	0.3481	28	27
2803.262858	0.4283	29	28
2807.593679	0.1987	31	30
2809.726315	0.0890	32	31
2811.837418	0.0707	33	32
2813.927083	0.4278	34	33
2815.993067	0.7565	35	34
2661.987569*	1.2769	22	23
2665.196052*	1.3780	21	22
2668.384215	0.5266	20	21
2671.555493	0.9513	19	20
2674.711823*	2.0923	18	19

Table 237 continued

01(1E)1-000 $H^{13}C^{15}N$ BKS BN BM

observed	10^3(o-c)	J′	J″
2677.844324	0.2245	17	18
2680.960952	0.1064	16	17
2684.059144	0.5755	15	16
2687.138001	0.3373	14	15
2690.198715	0.6382	13	14
2693.238928	0.8249	12	13
2696.263472	0.8350	11	12
2699.266462	0.2106	10	11
2702.251595	0.2086	9	10
2705.217971	0.0017	8	9
2708.165401	0.2786	7	8
2711.092600	0.5942	6	7
2714.002114	0.0156	5	6
2716.891748	0.1212	4	5
2719.762102	0.2511	3	4
2722.613783	0.2620	2	3
2725.443780*	1.5316	1	2
2733.824301	0.4973	1	0
2736.577506	0.0404	2	1
2739.311600	0.1626	3	2
2742.025298	0.3569	4	3
2747.394449	0.1187	6	5
2750.049252	0.1200	7	6
2752.683737	0.0573	8	7
2755.298244	0.0999	9	8
2757.892401	0.0567	10	9
2760.466280	0.2729	11	10
2763.021341	0.9798	12	11
2765.552989	0.8243	13	12
2768.067197	0.3567	14	13
2770.559439	0.0672	15	14
2773.031489	0.1515	16	15
2775.482681	0.0146	17	16
2777.910444*	2.8429	18	17
2780.322670	0.4573	19	18
2782.712214	0.0989	20	19
2785.079053	1.1240	21	20
2787.427662	0.4221	22	21
2789.753106	0.1236	23	22

THE RMS DEV = 0.000324 FOR 129 LINES

Table 238

011-010 $H^{13}C^{15}N$ RUN BF

observed	10^3(o-c)	J′	J″
1994.309345	0.4660	10	11
1997.286083	0.1087	9	10
2000.245278	0.0095	8	9
2003.185965	0.0820	7	8
2006.108685	0.2193	6	7
2009.012193	0.2688	5	6
2011.898015	0.0415	4	5
2014.764944	0.0059	3	4
2017.613224	0.0689	2	3
2020.442868	0.1074	1	2
2031.573863	0.1384	2	1
2034.309071	0.0301	3	2
2039.722567	0.0713	5	4
2042.400658	0.0140	6	5
2045.059484	0.0198	7	6
2047.698901	0.0499	8	7
2050.319099	0.0302	9	8
2052.919593	0.1604	10	9
2055.500887	0.0540	11	10
2058.062586	0.0185	12	11
2060.604548	0.0203	13	12
2063.126694	0.1856	14	13
2068.111163	1.0124	16	15
2070.575007	0.0240	17	16
2073.017924	0.0149	18	17
2075.440745	0.0895	19	18
2077.843890	0.2369	20	19

THE RMS DEV = 0.000240 FOR 27 LINES

Table 239

111-010 for $H^{13}C^{15}N$ RUN BF

observed	10^3(o-c)	J′	J″
1994.159396	0.0042	10	11
1997.150381	0.0163	9	10
2000.120026*	3.0599	8	9
2003.077250	0.2501	7	8
2006.013236	0.3075	6	7
2008.930969	0.1831	5	6
2011.830117	0.1447	4	5
2014.710536	0.2720	3	4
2017.572850	0.1231	2	3
2020.415635	0.3185	1	2
2031.600611	0.0353	2	1
2034.349529	0.0871	3	2
2037.078995	0.1612	4	3
2039.789693	0.0313	5	4
2042.481053	0.0278	6	5
2045.153106	0.0544	7	6
2047.805781	0.1165	8	7
2050.439022	0.2048	9	8
2053.053074	0.0084	10	9
2055.647385	0.0139	11	10
2058.222121	0.0105	12	11
2060.777027	0.1240	13	12
2063.312385	0.0700	14	13
2065.827950	0.0063	15	14
2068.323545	0.0439	16	15
2070.799264	0.0228	17	16
2073.254611	0.3728	18	17
2075.690609	0.0048	19	18
2078.106318	0.2074	20	19

THE RMS DEV = 0.000158 FOR 27 LINES

Table 240

01(1E)1-01(1E)0 $H^{13}C^{15}N$ RUN BG

observed	10^3(o-c)	J′	J″
1982.014868	0.4868	14	15
1985.077528	0.1553	13	14
1988.123986	0.9898	12	13
1991.150469	0.2127	11	12
1994.159652	0.2517	10	11
1997.149893	0.4716	9	10
2000.121452*	1.6339	8	9
2003.077211	0.2891	7	8
2006.013666	0.1224	6	7
2008.931181	0.0288	5	6
2011.829995	0.2667	4	5
2014.710597	0.2110	3	4
2017.572425	0.3018	2	3
2020.415593	0.3605	1	2
2031.600691	0.0446	2	1
2034.349576	0.1341	3	2
2037.079374	0.2177	4	3
2039.790000	0.2756	5	4
2042.481394	0.3131	6	5
2045.153174	0.0135	7	6
2047.805784	0.1135	8	7
2050.439310	0.0831	9	8
2053.053291	0.2085	10	9
2055.647508	0.1090	11	10
2058.221916	0.1944	12	11
2060.776957	0.1940	13	12
2063.312469	0.0139	14	13
2065.827756	0.2003	15	14
2068.323351	0.2379	16	15
2070.799118	0.1688	17	16
2073.254583	0.4008	18	17
2075.690450	0.1638	19	18
2078.105978	0.1325	20	19
2080.501257	0.1507	21	20
2082.876332	0.1071	22	21
2085.230869	0.2694	23	22
2089.879229	0.0461	25	24
2092.172487	0.0926	26	25
2094.445354	0.0674	27	26
2096.697320	0.0091	28	27
2098.928543	0.0981	29	28
2101.139444	0.2879	30	29
2103.328901	0.0937	31	30
2105.497627	0.0985	32	31

THE RMS DEV = 0.000263 FOR 42 LINES

Table 241

01(1E)1-01(1E)0 $H^{13}C^{15}N$ RUN BG

observed	10^3(o-c)	J′	J″
1985.264183*	3.9588	13	14
1988.302473*	2.6805	12	13
1991.314075	0.6830	11	12
1994.311281*	2.4020	10	11
1997.285891	0.3007	9	10
2000.245273	0.0045	8	9
2003.185655	0.3920	7	8
2006.108905	0.4393	6	7
2009.012030	0.4318	5	6
2011.897958	0.0154	4	5
2014.764668	0.2700	3	4
2017.612685	0.6079	2	3
2020.443011	0.0355	1	2
2031.573888	0.1634	2	1
2034.309398	0.2968	3	2
2037.025393	0.0339	4	3
2039.723568	0.9296	5	4
2042.400773	0.1009	6	5
2045.059612	0.1478	7	6
2047.699030	0.0790	8	7
2050.318921	0.1477	9	8
2052.919703	0.0504	10	9
2055.500939	0.0020	11	10
2058.062612	0.0445	12	11
2060.604576	0.0076	13	12
2063.126871	0.0086	14	13
2065.629328	0.1088	15	14
2068.111560	0.6154	16	15
2070.574949	0.0820	17	16
2073.017770	0.1689	18	17
2075.440602	0.2325	19	18
2077.843562	0.0910	20	19
2080.226216	0.1136	21	20
2082.588610	0.1895	22	21
2084.929990	1.0077	23	22
2087.252780	0.0792	24	23
2089.554300	0.0190	25	24
2091.835495	0.1829	26	25
2094.096116	0.3428	27	26
2096.335552	0.0849	28	27
2098.549577*	5.2614	29	28
2100.753201	0.1112	30	29
2102.931169	0.1759	31	30
2105.087884	0.0685	32	31

THE RMS DEV = 0.000330 FOR 40 LINES

Table 242

001-000 $H^{13}C^{15}N$ RUN BG

observed	10^3(o-c)	J′	J″
1907.475533*	1.6632	38	39
1910.934576	0.1251	37	38
1914.375536	0.2641	36	37
1917.800344	0.0929	35	36
1921.208473	0.0820	34	35
1924.600121	0.0234	33	34
1927.974999	0.0087	32	33
1931.333267	0.0387	31	32
1934.674744	0.0422	30	31
1937.999475	0.1043	29	30
1941.307283	0.1057	28	29
1944.598210	0.1466	27	28
1947.872130	0.1589	26	27
1951.129017	0.1753	25	26
1954.368790	0.1731	24	25
1957.591446	0.2082	23	24
1960.796867	0.2214	22	23
1963.985033	0.2520	21	22
1967.155854	0.2693	20	21
1970.309282	0.2846	19	20
1973.445210	0.2507	18	19
1976.563727	0.3164	17	18
1979.664573	0.2816	16	17
1982.747852	0.3106	15	16
1985.813365	0.2646	14	15
1988.861147	0.2392	13	14
1991.889170*	1.7330	12	13
1994.903215	0.1896	11	12
1997.897277	0.0632	10	11
2000.873430	0.0229	9	10
2003.831474	0.0702	8	9
2006.772133	0.5693	7	8
2009.693484	0.0799	6	7
2012.596958	0.0454	5	6
2015.482326	0.0257	4	5
2018.349203	0.0293	3	4
2021.197748	0.0101	2	3
2024.027504	0.2503	1	2
2026.838493	0.7266	0	1
2032.405948	0.2983	1	0
2035.161803	0.1205	2	1
2037.899605*	1.2883	3	2
2040.616073	0.0129	4	3
2043.315076	0.1486	5	4
2045.994989	0.2114	6	5
2048.655695	0.1217	7	6

Table 242 continued

001-000 $H^{13}C^{15}N$ RUN BG

observed	10^3(o-c)	J′	J″
2051.297394	0.1429	8	7
2053.919729	0.0184	9	8
2056.523220	0.2211	10	9
2059.106913	0.0283	11	10
2061.671514	0.0028	12	11
2064.216645	0.0006	13	12
2066.742093	0.1839	14	13
2069.248251	0.0935	15	14
2071.734600	0.1831	16	15
2074.201250	0.2783	17	16
2076.648323	0.1925	18	17
2079.075676	0.0043	19	18
2081.482765	0.1931	20	19
2083.870130	0.1540	21	20
2086.237614	0.0206	22	21
2088.584718	0.1032	23	22
2090.911788	0.1146	24	23
2093.218262	0.5104	25	24
2095.505306	0.0595	26	25
2097.771575	0.0416	27	26
2100.017421	0.0395	28	27
2102.242826	0.0057	29	28
2104.447665	0.0001	30	29
2106.631922	0.0276	31	30
2108.795476	0.0215	32	31
2110.938310	0.0304	33	32
2113.060309	0.0051	34	33
2115.161431	0.0304	35	34
2117.241711	0.0244	36	35
2119.300839	0.0740	37	36

THE RMS DEV = 0.000195 FOR 72 LINES

Table 243

001-000 for $H^{13}C^{15}N$ RUN BF

observed	10^3(o-c)	J′	J″
1921.208444	0.1110	34	35
1924.597343*	2.7545	33	34
1927.974858	0.1497	32	33
1931.333345	0.1167	31	32
1934.674519	0.1827	30	31
1937.999350	0.0206	29	30
1941.307119	0.0582	28	29
1944.597956	0.1073	27	28
1947.871913	0.0580	26	27
1951.128807	0.0346	25	26
1954.368593	0.0238	24	25
1957.591219	0.0187	23	24
1960.796634	0.0115	22	23
1963.984767	0.0139	21	22
1967.155607	0.0223	20	21
1970.309002	0.0046	19	20
1973.444974	0.0147	18	19
1976.563429	0.0184	17	18
1979.664322	0.0306	16	17
1982.747558	0.0166	15	16
1985.813123	0.0226	14	15
1988.860941	0.0332	13	14
1994.903027	0.0016	11	12
1997.897220	0.0062	10	11
2000.873391	0.0160	9	10
2003.831540	0.0042	8	9
2006.771539	0.0246	7	8
2009.693336	0.0680	6	7
2012.596973	0.0304	5	6
2015.482360	0.0597	4	5
2021.197921	0.1831	2	3
2035.161460	0.2224	2	1
2037.900431*	2.1143	3	2
2040.616123	0.0370	4	3
2043.314975	0.0476	5	4
2045.994771	0.0065	6	5
2048.655611	0.0377	7	6
2051.297247	0.0040	8	7
2053.919766	0.0185	9	8
2056.522983	0.0158	10	9
2059.106933	0.0083	11	10
2061.671416	0.0951	12	11
2064.216503	0.1413	13	12
2066.742259	0.0179	14	13
2069.248311	0.0335	15	14
2071.734764	0.0191	16	15

Table 243 continued

001-000 for $H^{13}C^{15}N$ RUN BF

observed	10^3(o-c)	J′	J″
2074.201525	0.0033	17	16
2076.648483	0.0325	18	17
2079.075722	0.0416	19	18
2081.482943	0.0151	20	19
2083.870279	0.0050	21	20
2086.237528	0.0653	22	21
2088.584710	0.1112	23	22
2090.911917	0.0144	24	23
2093.216473*	2.2994	25	24
2095.505392	0.0264	26	25
2097.771661	0.0443	27	26
2100.017472	0.0114	28	27
2102.242810	0.0217	29	28
2104.447670	0.0051	30	29
2106.632028	0.1336	31	30
2108.795548	0.0935	32	31
2110.938437	0.1574	33	32
2113.060337	0.0331	34	33
2115.161626	0.1645	35	34
2117.241756	0.0694	36	35

THE RMS DEV = 0.000074 FOR 62 LINES

Table 244

GROUND STATE for $H^{13}C^{15}N$

observed	10^3(o-c)	J′	J″
83727.590000	7.8307	1	0
167453.285000	2.6304	2	1
251175.234000	5.7373	3	2
334891.560000	1.9674	4	3
418600.386000	8.0158	5	4

THE RMS DEV = 0.000000 FOR 5 LINES

Table 245

001-000 for $H^{13}C^{15}N$ RUN BE

observed	10^3(o-c)	J′	J″
1944.598402	0.3382	27	28
1947.872152	0.1809	26	27
1951.129187	0.3457	25	26
1954.368796	0.1795	24	25
1957.591234	0.0042	23	24
1960.796745	0.0994	22	23
1963.984827	0.0461	21	22
1967.155818	0.2331	20	21
1970.309351	0.3541	19	20
1973.445368	0.4090	18	19
1976.563627	0.2166	17	18
1979.664409	0.1174	16	17
1982.748024	0.4823	15	16
1985.813262	0.1615	14	15
1988.861005	0.0971	13	14
1994.902610	0.4154	11	12
1997.896482	0.7313	10	11
2000.871441*	1.9661	9	10
2003.832038	0.4934	8	9
2006.767911*	3.6524	7	8
2015.478890*	3.4100	4	5
2021.185539*	2.1984	2	3

THE RMS DEV = 0.000328 FOR 18 LINES

Table 246

01(1E)0 ROTATIONAL TRANSITIONS

observed	10^3(o-c)	J′	J″
167411.165000	9.7012	2	1
251112.039000	0.8623	3	2
334807.250000	6.9497	4	3
418494.881000	0.7804	5	4

THE RMS DEV = 0.000000 FOR 4 LINES

Table 247

01(1F)0 ROTATIONAL TRANSITIONS

observed	10^3(o-c)	J′	J″
168220.503000	9.0295	2	1
252325.944000	7.1999	3	2
336425.504000	0.3092	4	3
420517.315000	2.4772	5	4

THE RMS DEV = 0.000000 FOR 4 LINES

Table 248

01(1F)0 - 01(1E)0 direct l-TYPE DOUBLETS

observed	10^3(o-c)	J′	J″
8495.028000	9.2493	6	6
11324.970000	2.3359	7	7
14558.132000	4.9847	8	8
18194.086000	0.9627	9	9
22232.373000	5.2246	10	10
26672.436000	6.7251	11	11
31513.734000	2.2091	12	12
36755.622000	5.9827	13	13
42397.360000	1.3386	14	14
48438.382000	4.1011	15	15

THE RMS DEV = 0.000001 FOR 10 LINES

Table 249

02(0)0 mm WAVE MEASUREMENTS

observed	10^3(o-c)	J′	J″
252335.195000	0.3903	3	2
336427.518000*	6.8308	4	3
420502.892000	3.3861	5	4

THE RMS DEV = 0.000000 FOR 2 LINES

Table 250

02(2E)0 mm WAVE MEASUREMENTS

observed	10^3(o-c)	J′	J″
252219.004000	5.7326	3	2
336293.250000	2.2484	4	3
420368.549000	3.8527	5	4

THE RMS DEV = 0.000000 FOR 3 LINES

Table 251

02(2F)0 mm WAVE MEASUREMENTS

observed	10^3(o-c)	J′	J″
252210.172000	9.9283	3	2
336271.136000	7.5697	4	3
420324.326000	0.1907	5	4

THE RMS DEV = 0.000000 FOR 3 LINES

Table 252

03(1F)0-000 $H^{13}C^{15}N$ RUN BE

observed	10^3(o-c)	J′	J″
2093.340522	0.5462	3	3
2093.473814	0.1111	4	4
2093.639148	0.5857	5	5
2093.838389	0.0726	6	6
2094.069857	0.3992	7	7
2094.332964	0.0606	8	8
2094.628460	0.1020	9	9
2094.955641	0.1575	10	10
2095.314337	0.4394	11	11
2095.703591	0.4202	12	12
2096.123077	0.2527	13	13
2096.572220	0.1070	14	14
2097.051299	0.2064	15	15
2097.558636	0.1599	16	16

THE RMS DEV = 0.000313 FOR 13 LINES

+++++ +++++ +++++ +++++ +++++ +++++ +++++ +++++

TOTAL NUMBER OF MEASUREMENTS BEING FIT = 10147

NUMBER OF NON-ZERO WTD MEASUREMENTS BEING FIT = 8669

NUMBER OF CONSTANTS BEING FIT = 200