Anhang G

Experimentelle Daten zu Kapitel 10

Unter OCCCS.i01 finden sich auf der beigefügten *Compact Disc* alle experimentellen Daten zu den spektroskopischen Untersuchungen am 3-Thioxo-1,2-propadien-1-on OC_3S. Das Verzeichnis OCCCS.c01 beinhaltet im ASCII-Format die noch aus der Diplomarbeit des Autors stammenden Spektren und Linienlisten zwischen 118 und 179 GHz, wohingegen das im Rahmen der vorliegenden Dissertation zwischen 400 und 700 cm^{-1} aufgenommene Fourier-Transform-Infrarot-Spektrum im Verzeichnis OCCCS.c02 abgelegt ist. Das ursprüngliche Transmissionsspektrum trägt die Bezeichnung TOCCCSAS.1, und mit ZOCCCSA1.1 ist nach *Postzerofilling* der wesentliche Ausschnitt aus dem Spektrum bezeichnet, der die Bandensysteme der höchstliegenden Knickschwingung ν_5 um 545 cm^{-1} und der niedrigstliegenden Streckschwingung ν_4 um 595 cm^{-1} umfaßt. Entsprechend trägt die zugehörige Linienliste die Bezeichnung ZOCCCSA1.pli.

Die zur Analyse des Bandensystems der Knickschwingung ν_5 erstellten Eingabedateien für linc96 und linc98 mit der Endung .lin befinden sich zusammen mit den erhaltenen Ausgabedateien mit der Endung .lot wieder im Verzeichnis Linc, wobei für die Fundamentalbande der Dateiname nu5_hb0 vergeben wurde, für die erste heiße Bande der Dateiname nu5_hb1 und für die zweite heiße Bande der Dateiname nu5_hb2.

In den nun folgenden Tabellen sind die experimentellen Übergangswellenzahlen und -frequenzen $\tilde{\nu}_{\mathrm{exp}}$ und ν_{exp} zusammengefaßt. Zusätzlich sind wieder die Abweichungen von den berechneten Übergangswellenzahlen und -frequenzen $\tilde{\nu}_{\mathrm{calc}}$ und ν_{calc} angegeben, wie sie aus den angepaßten effektiven Konstanten in Tabelle 10.6 resultieren. Mit einem Asterix sind wie gehabt alle diejenigen Übergänge markiert, die bei der Anpassung der effektiven Konstanten nicht berücksichtigt wurden.

Tabelle G.1 Zugeordnete Rotations-Vibrationsübergänge von OC_3S um 545 cm^{-1}.

$J' \leftarrow J''$	$\frac{\tilde{\nu}_{exp}}{cm^{-1}}$	$\frac{\tilde{\nu}_{exp} - \tilde{\nu}_{calc}}{cm^{-1}}$	$J' \leftarrow J''$	$\frac{\tilde{\nu}_{exp}}{cm^{-1}}$	$\frac{\tilde{\nu}_{exp} - \tilde{\nu}_{calc}}{cm^{-1}}$
$(\nu_5^1)^{1e} \leftarrow$ Grund, P-Zweig					
$3 \leftarrow 4$	543.676 671	−0.000 334			
$4 \leftarrow 5$	543.583 001	0.000 025			
$5 \leftarrow 6$	543.489 097	0.000 075			
$6 \leftarrow 7$	543.395 343	0.000 201			
$7 \leftarrow 8$	543.300 914	−0.000 422			
$8 \leftarrow 9$	543.208 657	0.001 052 *			
$9 \leftarrow 10$	543.114 667	0.000 719			
$10 \leftarrow 11$	543.020 637	0.000 271			
$11 \leftarrow 12$	542.926 860	0.000 001			
$12 \leftarrow 13$	542.833 012	−0.000 414			
$13 \leftarrow 14$	542.739 451	−0.000 617			
$14 \leftarrow 15$	542.647 396	0.000 612			
$15 \leftarrow 16$	542.553 501	−0.000 074			
$16 \leftarrow 17$	542.460 366	−0.000 075			
$17 \leftarrow 18$	542.367 618	0.000 236			
$18 \leftarrow 19$	542.274 326	−0.000 072			
$19 \leftarrow 20$	542.181 597	0.000 108			
$20 \leftarrow 21$	542.088 966	0.000 312			
$21 \leftarrow 22$	541.995 891	−0.000 004			
$22 \leftarrow 23$	541.903 299	0.000 089			
$23 \leftarrow 24$	541.810 510	−0.000 091			
$24 \leftarrow 25$	541.718 331	0.000 265			
$25 \leftarrow 26$	541.625 509	−0.000 098			
$26 \leftarrow 27$	541.533 424	0.000 201			
$27 \leftarrow 28$	541.440 643	−0.000 271			
$28 \leftarrow 29$	541.349 245	0.000 565			
$29 \leftarrow 30$	541.256 388	−0.000 133			
$30 \leftarrow 31$	541.164 649	0.000 211			
$31 \leftarrow 32$	541.072 508	0.000 078			
$32 \leftarrow 33$	540.981 066	0.000 569			
$33 \leftarrow 34$	540.888 625	−0.000 015			
$34 \leftarrow 35$	540.797 033	0.000 175			
$35 \leftarrow 36$	540.705 313	0.000 161			
$36 \leftarrow 37$	540.613 356	−0.000 165			
$37 \leftarrow 38$	540.521 571	−0.000 395			
$38 \leftarrow 39$	540.430 792	0.000 306			
$39 \leftarrow 40$	540.339 488	0.000 406			
$40 \leftarrow 41$	540.247 853	0.000 099			
$41 \leftarrow 42$	540.156 585	0.000 084			
$42 \leftarrow 43$	540.065 594	0.000 270			
$43 \leftarrow 44$	539.974 355	0.000 133			
$44 \leftarrow 45$	539.883 169	−0.000 028			
$45 \leftarrow 46$	539.792 332	0.000 085			
$46 \leftarrow 47$	539.701 428	0.000 055			
$47 \leftarrow 48$	539.610 512	−0.000 064			
$48 \leftarrow 49$	539.519 892	0.000 038			
$49 \leftarrow 50$	539.429 527	0.000 319			
$50 \leftarrow 51$	539.338 544	−0.000 094			
$51 \leftarrow 52$	539.248 238	0.000 094			
$52 \leftarrow 53$	539.158 034	0.000 308			
$53 \leftarrow 54$	539.067 591	0.000 207			
$54 \leftarrow 55$	538.977 176	0.000 057			
$55 \leftarrow 56$	538.887 161	0.000 232			

56 ← 57	538.797 087	0.000 271
57 ← 58	538.706 222	−0.000 558
58 ← 59	538.616 935	0.000 116
59 ← 60	538.526 781	−0.000 154
60 ← 61	538.436 996	−0.000 131
61 ← 62	538.347 319	−0.000 077
62 ← 63	538.258 017	0.000 276
63 ← 64	538.167 885	−0.000 278
64 ← 65	538.079 327	0.000 666
65 ← 66	537.989 194	−0.000 042
66 ← 67	537.900 395	0.000 508
67 ← 68	537.810 939	0.000 324
68 ← 69	537.721 653	0.000 233
69 ← 70	537.632 592	0.000 291
70 ← 71	537.543 436	0.000 177
71 ← 72	537.454 365	0.000 071
72 ← 73	537.365 628	0.000 222
73 ← 74	537.276 827	0.000 232
74 ← 75	537.188 463	0.000 603
75 ← 76	537.099 245	0.000 042
76 ← 77	537.010 593	−0.000 029
77 ← 78	536.922 296	0.000 178
78 ← 79	536.833 921	0.000 229
79 ← 80	536.744 618	−0.000 725
80 ← 81	536.656 692	−0.000 378
81 ← 82	536.568 796	−0.000 079
82 ← 83	536.480 646	−0.000 111
83 ← 84	536.392 721	0.000 005
84 ← 85	536.304 586	−0.000 167
85 ← 86	536.216 930	0.000 064
86 ← 87	536.128 915	−0.000 142
87 ← 88	536.040 967	−0.000 359
88 ← 89	535.953 599	−0.000 072
89 ← 90	535.865 926	−0.000 168
90 ← 91	535.778 479	−0.000 116
91 ← 92	535.691 015	−0.000 158
92 ← 93	535.603 723	−0.000 105
93 ← 94	535.516 497	−0.000 064
94 ← 95	535.429 313	−0.000 058
95 ← 96	535.342 208	−0.000 051
96 ← 97	535.255 122	−0.000 103
97 ← 98	535.168 109	−0.000 159
98 ← 99	535.081 356	−0.000 032
99 ← 100	534.994 698	0.000 111
100 ← 101	534.907 632	−0.000 231
101 ← 102	534.821 163	−0.000 053
102 ← 103	534.734 522	−0.000 125
103 ← 104	534.647 970	−0.000 186
104 ← 105	534.561 454	−0.000 289
105 ← 106	534.475 173	−0.000 234
106 ← 107	534.389 065	−0.000 084
107 ← 108	534.302 699	−0.000 269
108 ← 109	534.216 884	0.000 019
109 ← 110	534.130 401	−0.000 439
110 ← 111	534.045 174	0.000 281
111 ← 112	533.959 055	0.000 032
112 ← 113	533.872 831	−0.000 400
113 ← 114	533.787 333	−0.000 184

	114 ← 115	533.701 810	−0.000 070
	115 ← 116	533.615 891	−0.000 430
	116 ← 117	533.530 614	−0.000 226
	117 ← 118	533.445 056	−0.000 380
	118 ← 119	533.360 099	−0.000 011
	119 ← 120	533.274 522	−0.000 339
	120 ← 121	533.189 301	−0.000 389
	121 ← 122	533.104 398	−0.000 198
	122 ← 123	533.019 261	−0.000 319
	123 ← 124	532.934 776	0.000 135
	124 ← 125	532.849 290	−0.000 490
	125 ← 126	532.764 524	−0.000 471
	126 ← 127	532.680 655	0.000 367
	127 ← 128	532.595 688	0.000 029
	128 ← 129	532.510 773	−0.000 333
	129 ← 130	532.426 159	−0.000 471
	130 ← 131	532.341 618	−0.000 614
	131 ← 132	532.258 393	0.000 483
	132 ← 133	532.174 038	0.000 373
	133 ← 134	532.089 506	0.000 009
	134 ← 135	532.005 087	−0.000 318
	136 ← 137	531.837 835	0.000 384
	137 ← 138	531.753 520	−0.000 069
	138 ← 139	531.669 775	−0.000 028
	139 ← 140	531.585 769	−0.000 324
	140 ← 141	531.502 222	−0.000 236
	141 ← 142	531.418 742	−0.000 158
	142 ← 143	531.335 665	0.000 248
	143 ← 144	531.253 181	0.001 171 *
	144 ← 145	531.168 637	−0.000 041
	145 ← 146	531.085 823	0.000 402
	146 ← 147	531.003 155	0.000 916
	147 ← 148	530.919 188	0.000 056
	149 ← 150	530.752 232	−0.000 909
	150 ← 151	530.669 725	−0.000 532
$(\nu_5^1)^{1f}$ ←	Grund, Q-Zweig		
	33 ← 33	544.107 735	0.000 135
	34 ← 34	544.111 145	0.000 289
	35 ← 35	544.114 506	0.000 297
	36 ← 36	544.118 154	0.000 497
	37 ← 37	544.121 163	−0.000 038
	38 ← 38	544.124 554	−0.000 286
	39 ← 39	544.128 478	−0.000 098
	40 ← 40	544.132 379	−0.000 028
	41 ← 41	544.136 321	−0.000 013
	42 ← 42	544.140 680	0.000 323
	43 ← 43	544.144 627	0.000 152
	44 ← 44	544.148 812	0.000 123
	45 ← 45	544.153 218	0.000 219
	46 ← 46	544.157 676	0.000 271
	47 ← 47	544.162 228	0.000 321
	48 ← 48	544.166 727	0.000 223
	49 ← 49	544.170 929	−0.000 268
	50 ← 50	544.175 986	0.000 000
	51 ← 51	544.180 715	−0.000 155
	52 ← 52	544.185 732	−0.000 119
	53 ← 53	544.190 984	0.000 057
	54 ← 54	544.196 210	0.000 112

55 ←	55	544.201 109	−0.000 257
56 ←	56	544.206 483	−0.000 246
57 ←	57	544.212 143	−0.000 045
58 ←	58	544.217 634	−0.000 109
59 ←	59	544.223 303	−0.000 091
60 ←	60	544.229 472	0.000 332
61 ←	61	544.234 926	−0.000 056
62 ←	62	544.240 717	−0.000 203
63 ←	63	544.246 965	0.000 011
64 ←	64	544.253 147	0.000 064
65 ←	65	544.259 425	0.000 117
66 ←	66	544.265 641	0.000 012
67 ←	67	544.272 553	0.000 507
68 ←	68	544.279 126	0.000 568
69 ←	69	544.285 158	−0.000 008
70 ←	70	544.291 835	−0.000 035
71 ←	71	544.299 462	0.000 792
72 ←	72	544.306 831	0.001 266 *
73 ←	73	544.314 008	0.001 452 *
74 ←	74	544.319 082	−0.000 561
75 ←	75	544.327 547	0.000 721
76 ←	76	544.335 353	0.001 249
77 ←	77	544.340 664	−0.000 814
78 ←	78	544.348 082	−0.000 866
79 ←	79	544.356 814	0.000 301
80 ←	80	544.365 534	0.001 359
81 ←	81	544.371 690	−0.000 242
82 ←	82	544.380 556	0.000 772
83 ←	83	544.387 316	−0.000 417
84 ←	84	544.396 667	0.000 890
85 ←	85	544.404 173	0.000 256
86 ←	86	544.412 211	0.000 059
87 ←	87	544.420 691	0.000 208
88 ←	88	544.427 988	−0.000 922
89 ←	89	544.437 314	−0.000 119
90 ←	90	544.446 129	0.000 078
91 ←	91	544.453 698	−0.001 067
92 ←	92	544.463 159	−0.000 415
93 ←	93	544.472 487	0.000 008
94 ←	94	544.481 063	−0.000 417
95 ←	95	544.490 367	−0.000 209
96 ←	96	544.501 193	0.001 425 *
97 ←	97	544.509 370	0.000 314
98 ←	98	544.517 435	−0.001 004
99 ←	99	544.527 476	−0.000 441
100 ←	100	544.537 132	−0.000 359
101 ←	101	544.547 800	0.000 639
102 ←	102	544.556 465	−0.000 461
103 ←	103	544.565 667	−0.001 119
104 ←	104	544.576 556	−0.000 186
105 ←	105	544.586 651	−0.000 143
106 ←	106	544.597 916	0.000 976
107 ←	107	544.607 125	−0.000 057
108 ←	108	544.616 465	−0.001 055
109 ←	109	544.628 343	0.000 391
110 ←	110	544.637 960	−0.000 520
111 ←	111	544.648 285	−0.000 818
112 ←	112	544.660 250	0.000 429

113 ← 113		544.669 767	−0.000 867
114 ← 114		544.680 471	−0.001 072
115 ← 115		544.692 310	−0.000 236
116 ← 116		544.703 097	−0.000 547
117 ← 117		544.715 374	0.000 537
118 ← 118		544.725 353	−0.000 772
119 ← 119		544.737 830	0.000 322
120 ← 120		544.747 843	−0.001 142
122 ← 122		544.772 629	0.000 405
123 ← 123		544.784 178	0.000 193
126 ← 126		544.820 019	0.000 184
127 ← 127		544.830 725	−0.001 248
129 ← 129		544.856 582	0.000 050
130 ← 130		544.869 245	0.000 293
131 ← 131		544.880 463	−0.001 003
132 ← 132		544.894 107	0.000 034
133 ← 133		544.907 003	0.000 229
134 ← 134		544.918 737	−0.000 831
135 ← 135		544.933 197	0.000 741
$(\nu_5^1)^{1e}$ ← Grund, R-Zweig			
4 ←	3	544.432 908	0.000 998
5 ←	4	544.526 083	−0.000 523
6 ←	5	544.621 201	−0.000 176
7 ←	6	544.715 374	−0.000 848
8 ←	7	544.810 702	−0.000 438
9 ←	8	544.907 003	0.000 870
10 ←	9	545.002 017	0.000 818
11 ←	10	545.097 043	0.000 703
12 ←	11	545.192 123	0.000 569
13 ←	12	545.286 818	−0.000 024
14 ←	13	545.381 868	−0.000 335
15 ←	14	545.477 463	−0.000 175
16 ←	15	545.573 172	0.000 025
17 ←	16	545.668 814	0.000 084
18 ←	17	545.764 377	−0.000 009
19 ←	18	545.860 624	0.000 508
20 ←	19	545.955 362	−0.000 557
21 ←	20	546.052 222	0.000 427
22 ←	21	546.147 844	0.000 098
23 ←	22	546.243 612	−0.000 157
24 ←	23	546.339 943	0.000 077
25 ←	24	546.436 205	0.000 169
26 ←	25	546.532 346	0.000 066
27 ←	26	546.628 497	−0.000 099
28 ←	27	546.724 374	−0.000 612
29 ←	28	546.821 929	0.000 479
30 ←	29	546.917 973	−0.000 013
31 ←	30	547.015 844	0.001 249 *
32 ←	31	547.110 955	−0.000 323
33 ←	32	547.208 159	0.000 126
34 ←	33	547.304 995	0.000 133
35 ←	34	547.402 096	0.000 332
36 ←	35	547.498 655	−0.000 083
37 ←	36	547.595 725	−0.000 061
38 ←	37	547.692 675	−0.000 231
39 ←	38	547.789 665	−0.000 434
40 ←	39	547.887 225	−0.000 140
41 ←	40	547.985 021	0.000 317

42 ←	41	548.082 025	−0.000 090
43 ←	42	548.179 937	0.000 338
44 ←	43	548.276 993	−0.000 163
45 ←	44	548.375 238	0.000 453
46 ←	45	548.472 355	−0.000 132
47 ←	46	548.570 859	0.000 597
48 ←	47	548.668 126	0.000 017
49 ←	48	548.766 156	0.000 127
50 ←	49	548.863 977	−0.000 044
51 ←	50	548.962 194	0.000 109
52 ←	51	549.060 674	0.000 452
53 ←	52	549.158 753	0.000 322
54 ←	53	549.256 700	−0.000 013
55 ←	54	549.354 899	−0.000 168
56 ←	55	549.453 619	0.000 126
57 ←	56	549.552 369	0.000 378
58 ←	57	549.650 599	0.000 037
59 ←	58	549.749 120	−0.000 084
60 ←	59	549.847 842	−0.000 077
61 ←	60	549.946 774	0.000 068
62 ←	61	550.046 199	0.000 634
63 ←	62	550.145 087	0.000 591
64 ←	63	550.243 673	0.000 174
65 ←	64	550.342 148	−0.000 426
66 ←	65	550.441 369	−0.000 352
67 ←	66	550.540 544	−0.000 396
68 ←	67	550.640 615	0.000 385
69 ←	68	550.740 249	0.000 656
70 ←	69	550.838 870	−0.000 157
71 ←	70	550.938 829	0.000 296
72 ←	71	551.038 468	0.000 357
73 ←	72	551.137 683	−0.000 077
74 ←	73	551.238 401	0.000 919
75 ←	74	551.337 485	0.000 211
76 ←	75	551.437 172	0.000 033
77 ←	76	551.537 289	0.000 214
78 ←	77	551.637 317	0.000 235
79 ←	78	551.736 800	−0.000 361
80 ←	79	551.837 112	−0.000 200
81 ←	80	551.937 395	−0.000 139
82 ←	81	552.037 846	0.000 019
83 ←	82	552.138 125	−0.000 066
84 ←	83	552.238 778	0.000 151
85 ←	84	552.338 961	−0.000 174
86 ←	85	552.439 699	−0.000 014
87 ←	86	552.540 318	−0.000 045
88 ←	87	552.640 830	−0.000 254
89 ←	88	552.741 740	−0.000 136
90 ←	89	552.843 083	0.000 344
91 ←	90	552.943 531	−0.000 142
92 ←	91	553.044 549	−0.000 130
93 ←	92	553.145 915	0.000 160
94 ←	93	553.247 325	0.000 423
95 ←	94	553.348 495	0.000 375
96 ←	95	553.448 899	−0.000 510
97 ←	96	553.550 792	0.000 023
98 ←	97	553.652 229	0.000 030
99 ←	98	553.753 784	0.000 083

100 ← 99	553.855 305	0.000 032
101 ← 100	553.956 654	−0.000 261
102 ← 101	554.058 650	0.000 022
103 ← 102	554.160 189	−0.000 223
104 ← 103	554.261 902	−0.000 364
105 ← 104	554.363 920	−0.000 271
106 ← 105	554.466 984	0.000 798
107 ← 106	554.567 960	−0.000 291
108 ← 107	554.669 732	−0.000 654
109 ← 108	554.772 522	−0.000 070
110 ← 109	554.875 296	0.000 428
111 ← 110	554.978 028	0.000 814
112 ← 111	555.079 769	0.000 139
113 ← 112	555.183 380	0.001 265 *
114 ← 113	555.284 713	0.000 042
115 ← 114	555.387 509	0.000 213
116 ← 115	555.489 464	−0.000 528
117 ← 116	555.593 204	0.000 448
118 ← 117	555.695 348	−0.000 242
119 ← 118	555.797 379	−0.001 115 *
120 ← 119	555.902 059	0.000 592
121 ← 120	556.004 078	−0.000 432
122 ← 121	556.106 906	−0.000 715
123 ← 122	556.210 609	−0.000 193
124 ← 123	556.313 883	−0.000 168
125 ← 124	556.416 983	−0.000 387
126 ← 125	556.520 305	−0.000 452
127 ← 126	556.623 751	−0.000 462
128 ← 127	556.728 406	0.000 669
129 ← 128	556.831 724	0.000 394
130 ← 129	556.934 801	−0.000 190
131 ← 130	557.038 739	0.000 019
132 ← 131	557.142 138	−0.000 379
133 ← 132	557.245 886	−0.000 497
134 ← 133	557.349 668	−0.000 647
135 ← 134	557.452 738	−0.001 578 *
136 ← 135	557.558 439	0.000 055
137 ← 136	557.661 347	−0.001 172 *
139 ← 138	557.871 089	0.000 099
140 ← 139	557.974 311	−0.001 015 *
141 ← 140	558.079 193	−0.000 535
142 ← 141	558.183 969	−0.000 228
143 ← 142	558.289 321	0.000 589
144 ← 143	558.393 702	0.000 369
145 ← 144	558.498 837	0.000 837
146 ← 145	558.602 979	0.000 247
148 ← 147	558.812 257	−0.000 134
149 ← 148	558.916 670	−0.000 649
150 ← 149	559.022 801	0.000 491
151 ← 150	559.127 741	0.000 375
152 ← 151	559.233 346	0.000 860
153 ← 152	559.338 832	0.001 162 *
154 ← 153	559.443 342	0.000 425

$(\nu_5^1+\nu_7^1)^{0e} \leftarrow (\nu_7^1)^{1e}$, P-Zweig

4 ← 5		
5 ← 6	550.790 172	0.000 152
6 ← 7	550.695 402	0.000 021
7 ← 8	550.600 613	−0.000 141

$(\nu_5^1+\nu_7^1)^{0f} \leftarrow (\nu_7^1)^{1f}$, P-Zweig

4 ← 5	543.805 126	−0.000 043
5 ← 6	543.711 292	0.000 830
6 ← 7		
7 ← 8	543.520 926	−0.000 196

8 ← 9	550.505 367	−0.000 773
9 ← 10	550.411 822	0.000 284
10 ← 11	550.316 717	−0.000 232
11 ← 12	550.222 612	0.000 238
12 ← 13	550.128 844	0.001 033
13 ← 14	550.033 722	0.000 460
14 ← 15	549.938 349	−0.000 377
15 ← 16	549.843 787	−0.000 418
16 ← 17	549.749 120	−0.000 577
17 ← 18	549.655 278	0.000 074
18 ← 19		
19 ← 20	549.465 481	−0.000 781
20 ← 21	549.372 910	0.001 096
21 ← 22	549.277 096	−0.000 285
22 ← 23	549.183 406	0.000 441
23 ← 24	549.087 929	−0.000 636
24 ← 25	548.994 595	0.000 414
25 ← 26	548.900 212	0.000 397
26 ← 27	548.805 329	−0.000 137
27 ← 28	548.710 785	−0.000 350
28 ← 29		
29 ← 30	548.522 991	0.000 462
30 ← 31	548.428 002	−0.000 252
31 ← 32	548.333 902	−0.000 097
32 ← 33	548.239 794	0.000 030
33 ← 34	548.146 236	0.000 686
34 ← 35	548.051 322	−0.000 036
35 ← 36	547.957 071	−0.000 115
36 ← 37		
37 ← 38	547.768 418	−0.000 494
38 ← 39	547.673 772	−0.001 037
39 ← 40	547.580 704	−0.000 027
40 ← 41	547.486 879	0.000 203
41 ← 42	547.393 004	0.000 356
42 ← 43	547.299 528	0.000 884
43 ← 44	547.204 554	−0.000 114
44 ← 45	547.110 955	0.000 237
45 ← 46	547.015 848	−0.000 948
46 ← 47	546.922 521	−0.000 382
47 ← 48	546.827 856	−0.001 182
48 ← 49	546.735 457	0.000 253
49 ← 50	546.641 233	−0.000 167
50 ← 51	546.547 690	0.000 063
51 ← 52	546.453 548	−0.000 338
52 ← 53	546.360 057	−0.000 121
53 ← 54	546.265 670	−0.000 833
54 ← 55	546.173 702	0.000 839
55 ← 56	546.079 685	0.000 427
56 ← 57	545.985 713	0.000 025
57 ← 58	545.891 787	−0.000 368
58 ← 59		
59 ← 60	545.704 747	−0.000 456
60 ← 61	545.611 283	−0.000 503
61 ← 62	545.517 987	−0.000 421
62 ← 63	545.424 705	−0.000 366
63 ← 64	545.332 790	0.001 014
64 ← 65	545.238 417	−0.000 107
65 ← 66	545.145 201	−0.000 115

8 ← 9	543.426 286	−0.000 202
9 ← 10	543.331 873	−0.000 004
10 ← 11	543.237 236	−0.000 055
11 ← 12	543.142 675	−0.000 053
12 ← 13	543.048 689	0.000 500
13 ← 14	542.953 376	−0.000 297
14 ← 15	542.860 761	0.001 581
15 ← 16	542.764 648	−0.000 062
16 ← 17	542.670 423	0.000 160
17 ← 18	542.575 404	−0.000 434
18 ← 19	542.481 134	−0.000 301
19 ← 20	542.387 315	0.000 261
20 ← 21	542.292 485	−0.000 209
21 ← 22	542.198 524	0.000 168
22 ← 23	542.103 994	−0.000 044
23 ← 24	542.009 446	−0.000 295
24 ← 25	541.915 105	−0.000 359
25 ← 26	541.820 883	−0.000 324
26 ← 27	541.726 971	0.000 002
27 ← 28	541.632 737	−0.000 013
28 ← 29	541.538 678	0.000 129
29 ← 30	541.444 854	0.000 487
30 ← 31	541.349 245	−0.000 956
31 ← 32	541.256 387	0.000 334
32 ← 33		
33 ← 34	541.067 447	−0.000 358
34 ← 35	540.973 765	0.000 060
35 ← 36	540.878 680	−0.000 939
36 ← 37	540.785 339	−0.000 208
37 ← 38	540.691 435	−0.000 055
38 ← 39	540.597 396	−0.000 049
39 ← 40	540.504 017	0.000 604
40 ← 41	540.409 274	−0.000 118
41 ← 42	540.315 721	0.000 338
42 ← 43	540.221 860	0.000 476
43 ← 44	540.127 260	−0.000 135
44 ← 45	540.033 105	−0.000 310
45 ← 46	539.939 248	−0.000 196
46 ← 47	539.845 418	−0.000 063
47 ← 48	539.751 652	0.000 127
48 ← 49	539.657 481	−0.000 094
49 ← 50	539.563 840	0.000 208
50 ← 51	539.469 675	−0.000 018
51 ← 52	539.375 557	−0.000 201
52 ← 53	539.282 179	0.000 352
53 ← 54	539.186 858	−0.001 041 *
54 ← 55	539.093 578	−0.000 395
55 ← 56	539.000 413	0.000 364
56 ← 57	538.907 492	0.001 367 *
57 ← 58	538.811 447	−0.000 755
58 ← 59	538.718 538	0.000 261
59 ← 60	538.625 202	0.000 851
60 ← 61	538.530 180	−0.000 243
61 ← 62	538.436 996	0.000 504
62 ← 63	538.342 670	0.000 113
63 ← 64	538.248 316	−0.000 302
64 ← 65	538.154 981	0.000 307
65 ← 66	538.060 523	−0.000 202

66 ← 67		
67 ← 68	544.958 607	−0.000 427
68 ← 69		
69 ← 70	544.772 629	−0.000 308
70 ← 71	544.680 471	0.000 510
71 ← 72		
72 ← 73	544.494 774	0.000 616
73 ← 74		
74 ← 75		
75 ← 76		
76 ← 77		
77 ← 78		
78 ← 79		
79 ← 80		
80 ← 81		
81 ← 82		
82 ← 83		
83 ← 84		
84 ← 85		
85 ← 86		
88 ← 89		
89 ← 90		
90 ← 91		
91 ← 92		
92 ← 93		
93 ← 94		
94 ← 95		
95 ← 96		
96 ← 97		
97 ← 98		
98 ← 99		
99 ← 100		
100 ← 101		
102 ← 103		
103 ← 104		
105 ← 106		
106 ← 107		
109 ← 110		

$(\nu_5^1+\nu_7^1)^{0f} \leftarrow (\nu_7^1)^{1e}$, Q-Zweig

28 ← 28	544.335 353	−0.000 321
29 ← 29	544.340 664	0.000 994
30 ← 30		
31 ← 31	544.348 082	0.000 028
32 ← 32	544.352 381	−0.000 060
33 ← 33	544.356 814	−0.000 143
34 ← 34	544.362 438	0.000 837
35 ← 35	544.367 160	0.000 787
36 ← 36	544.371 690	0.000 418
37 ← 37	544.376 008	−0.000 289
38 ← 38	544.380 556	−0.000 891
39 ← 39	544.387 316	0.000 594
40 ← 40	544.392 234	0.000 114
41 ← 41	544.396 667	−0.000 975
42 ← 42	544.404 173	0.000 888
43 ← 43	544.409 022	−0.000 027
44 ← 44	544.415 411	0.000 477
45 ← 45	544.420 691	−0.000 246
46 ← 46	544.427 988	0.000 928

66 ← 67	537.966 466	−0.000 303
67 ← 68	537.873 072	0.000 266
68 ← 69	537.779 148	0.000 313
69 ← 70	537.685 397	0.000 541
70 ← 71	537.590 779	−0.000 089
71 ← 72	537.497 008	0.000 138
72 ← 73	537.403 076	0.000 213
73 ← 74	537.309 154	0.000 309
74 ← 75	537.214 791	−0.000 024
75 ← 76	537.120 861	0.000 087
76 ← 77	537.026 669	−0.000 051
77 ← 78	536.932 320	−0.000 333
78 ← 79	536.838 439	−0.000 135
79 ← 80	536.744 618	0.000 138
80 ← 81	536.650 513	0.000 141
81 ← 82	536.556 285	0.000 035
82 ← 83	536.461 775	−0.000 337
83 ← 84	536.366 995	−0.000 965
84 ← 85	536.273 904	0.000 113
85 ← 86	536.179 439	−0.000 168
88 ← 89	535.897 442	0.000 488
89 ← 90	535.802 264	−0.000 439
90 ← 91	535.708 095	−0.000 340
91 ← 92	535.613 819	−0.000 330
92 ← 93	535.520 715	0.000 869
93 ← 94	535.425 242	−0.000 283
94 ← 95	535.331 606	0.000 420
95 ← 96	535.237 438	0.000 608
96 ← 97	535.141 974	−0.000 482
97 ← 98	535.047 767	−0.000 297
98 ← 99	534.953 052	−0.000 603
99 ← 100	534.859 902	0.000 675
100 ← 101	534.764 388	−0.000 394
102 ← 103	534.575 284	−0.000 555
103 ← 104	534.481 052	−0.000 290
105 ← 106	534.291 769	−0.000 527
106 ← 107	534.197 284	−0.000 464
109 ← 110	533.914 738	0.000 733

$(\nu_5^1+\nu_7^1)^{0e} \leftarrow (\nu_7^1)^{1f}$, Q-Zweig

28 ← 28		
29 ← 29	551.312 595	−0.000 379
30 ← 30	551.310 624	0.000 720
31 ← 31	551.306 396	−0.000 342
32 ← 32	551.304 039	0.000 563
33 ← 33	551.300 241	0.000 123
34 ← 34	551.296 483	−0.000 182
35 ← 35	551.293 594	0.000 475
36 ← 36	551.289 601	0.000 122
37 ← 37	551.285 874	0.000 128
38 ← 38	551.282 204	0.000 283
39 ← 39	551.277 845	−0.000 159
40 ← 40	551.274 035	0.000 039
41 ← 41	551.269 941	0.000 042
42 ← 42	551.265 772	0.000 060
43 ← 43	551.261 261	−0.000 175
44 ← 44	551.257 149	0.000 076
45 ← 45	551.252 892	0.000 269
46 ← 46	551.248 200	0.000 114

47 ← 47	544.432 908	−0.000 391
48 ← 48	544.439 392	−0.000 264
49 ← 49	544.446 129	0.000 001
50 ← 50	544.453 698	0.000 984
51 ← 51	544.459 532	0.000 117
52 ← 52	544.466 851	0.000 623
53 ← 53	544.472 487	−0.000 666
54 ← 54	544.481 063	0.000 874
55 ← 55	544.487 296	−0.000 038
56 ← 56	544.494 774	0.000 185
57 ← 57	544.501 193	−0.000 758
58 ← 58	544.509 370	−0.000 050
59 ← 59	544.517 435	0.000 439
60 ← 60		
61 ← 61	544.532 956	0.000 496
62 ← 62	544.540 786	0.000 439
63 ← 63	544.547 800	−0.000 536
64 ← 64	544.556 465	0.000 039
65 ← 65	544.565 667	0.001 051
66 ← 66	544.572 522	−0.000 383
67 ← 67	544.581 214	−0.000 079
68 ← 68	544.589 562	−0.000 216
69 ← 69	544.597 916	−0.000 442
70 ← 70	544.607 125	0.000 090
71 ← 71	544.616 465	0.000 659
72 ← 72	544.624 560	−0.000 110
73 ← 73	544.633 439	−0.000 188
74 ← 74	544.642 864	0.000 188
75 ← 75	544.651 647	−0.000 169
76 ← 76	544.660 250	−0.000 796
77 ← 77	544.669 767	−0.000 598
78 ← 78	544.680 471	0.000 698
79 ← 79	544.688 895	−0.000 374
80 ← 80	544.698 491	−0.000 360
81 ← 81	544.708 277	−0.000 243
82 ← 82	544.717 619	−0.000 656
83 ← 83	544.728 178	0.000 064
84 ← 84	544.737 830	−0.000 208
85 ← 85	544.747 843	−0.000 202
86 ← 86	544.758 886	0.000 751
87 ← 87	544.768 278	−0.000 030
88 ← 88	544.778 486	−0.000 076
89 ← 89	544.788 982	0.000 084
90 ← 90	544.799 295	−0.000 019
91 ← 91	544.810 702	0.000 891
92 ← 92	544.820 019	−0.000 368
93 ← 93	544.830 725	−0.000 317
94 ← 94	544.841 944	0.000 167
95 ← 95	544.852 513	−0.000 076
96 ← 96	544.864 265	0.000 785
97 ← 97	544.873 604	−0.000 845
98 ← 98	544.884 888	−0.000 606
99 ← 99	544.897 404	0.000 787
100 ← 100	544.907 003	−0.000 814
101 ← 101	544.918 737	−0.000 356
102 ← 102		
103 ← 103	544.942 217	0.000 343
104 ← 104		

47 ← 47	551.243 430	−0.000 034
48 ← 48	551.238 401	−0.000 357
49 ← 49	551.234 157	0.000 190
50 ← 50	551.229 406	0.000 312
51 ← 51	551.223 420	−0.000 720
52 ← 52	551.219 008	−0.000 096
53 ← 53	551.214 060	0.000 072
54 ← 54	551.208 515	−0.000 277
55 ← 55	551.203 551	0.000 032
56 ← 56	551.198 145	−0.000 024
57 ← 57	551.192 891	0.000 149
58 ← 58	551.187 288	0.000 048
59 ← 59	551.181 722	0.000 058
60 ← 60	551.176 650	0.000 636
61 ← 61	551.170 354	0.000 061
62 ← 62	551.164 571	0.000 071
63 ← 63	551.158 270	−0.000 368
64 ← 64	551.153 447	0.000 741
65 ← 65	551.147 094	0.000 387
66 ← 66	551.141 634	0.000 993
67 ← 67	551.135 063	0.000 553
68 ← 68	551.128 453	0.000 139
69 ← 69	551.121 798	−0.000 257
70 ← 70	551.115 593	−0.000 142
71 ← 71	551.109 175	−0.000 178
72 ← 72	551.103 037	0.000 125
73 ← 73	551.096 394	−0.000 018
74 ← 74	551.089 929	0.000 073
75 ← 75	551.083 579	0.000 336
76 ← 76	551.076 464	−0.000 112
77 ← 77	551.069 673	−0.000 183
78 ← 78	551.063 141	0.000 057
79 ← 79	551.055 535	−0.000 726
80 ← 80	551.049 421	0.000 033
81 ← 81		
82 ← 82		
83 ← 83	551.028 197	−0.000 291
84 ← 84	551.021 082	−0.000 349
85 ← 85	551.014 487	0.000 155
86 ← 86	551.007 076	−0.000 116
87 ← 87	551.000 449	0.000 438
88 ← 88	550.992 654	−0.000 139
89 ← 89	550.985 388	−0.000 149
90 ← 90		
91 ← 91	550.970 966	0.000 045
92 ← 92	550.963 212	−0.000 351
93 ← 93	550.956 590	0.000 416
94 ← 94	550.948 268	−0.000 488
95 ← 95		
96 ← 96	550.934 280	0.000 445
97 ← 97	550.925 843	−0.000 493
98 ← 98	550.918 213	−0.000 601
99 ← 99	550.911 779	0.000 510
100 ← 100	550.903 763	0.000 059
101 ← 101		
102 ← 102	550.888 541	0.000 023
103 ← 103	550.881 283	0.000 383
104 ← 104	550.872 905	−0.000 363

105 ← 105		
106 ← 106		
107 ← 107	544.988 555	0.000 210
109 ← 109	545.012 906	0.000 873
110 ← 110	545.024 066	0.000 076
111 ← 111	545.036 048	0.000 027
112 ← 112	545.048 295	0.000 167
113 ← 113	545.060 754	0.000 444

$(\nu_5^1+\nu_7^1)^{0e} \leftarrow (\nu_7^1)^{1e}$, R-Zweig

9 ← 8	552.210 376	−0.000 654
10 ← 9	552.305 332	−0.000 527
11 ← 10	552.400 788	0.000 089
12 ← 11	552.495 827	0.000 275
13 ← 12	552.590 622	0.000 205
14 ← 13	552.685 264	−0.000 030
15 ← 14	552.780 640	0.000 455
16 ← 15	552.874 947	−0.000 141
17 ← 16	552.970 213	0.000 209
18 ← 17	553.063 810	−0.001 123
19 ← 18	553.159 525	−0.000 351
20 ← 19	553.255 341	0.000 509
21 ← 20	553.348 495	−0.001 307
22 ← 21	553.444 193	−0.000 594
23 ← 22	553.539 541	−0.000 244
24 ← 23	553.634 711	−0.000 088
25 ← 24	553.729 800	−0.000 027
26 ← 25	553.824 852	−0.000 019
27 ← 26	553.920 102	0.000 171
28 ← 27	554.015 155	0.000 149
29 ← 28	554.109 656	−0.000 442
30 ← 29	554.205 320	0.000 113
31 ← 30	554.300 023	−0.000 310
32 ← 31	554.395 449	−0.000 027
33 ← 32	554.490 132	−0.000 505
34 ← 33	554.585 940	0.000 123
35 ← 34	554.681 105	0.000 090
36 ← 35	554.776 482	0.000 249
37 ← 36	554.870 842	−0.000 628
38 ← 37	554.967 096	0.000 368
39 ← 38	555.061 982	−0.000 024
40 ← 39		
41 ← 40		
42 ← 41	555.347 672	−0.000 299
43 ← 42	555.443 558	0.000 221
44 ← 43	555.538 762	0.000 035
45 ← 44	555.634 371	0.000 230
46 ← 45	555.729 797	0.000 218
47 ← 46	555.825 024	−0.000 019
48 ← 47	555.920 380	−0.000 152
49 ← 48	556.016 048	0.000 000
50 ← 49	556.111 432	−0.000 159
51 ← 50	556.207 469	0.000 308
52 ← 51	556.303 011	0.000 251
53 ← 52	556.398 464	0.000 076
54 ← 53	556.493 983	−0.000 063
55 ← 54	556.589 877	0.000 143
56 ← 55	556.685 117	−0.000 337
57 ← 56	556.781 441	0.000 236

105 ← 105	550.864 867	−0.000 756
106 ← 106	550.858 006	0.000 039
107 ← 107	550.850 501	0.000 200
109 ← 109		
110 ← 110	550.826 513	−0.000 747
111 ← 111	550.820 621	0.001 050
112 ← 112	550.812 946	0.001 065
113 ← 113	550.804 902	0.000 712

$(\nu_5^1+\nu_7^1)^{0f} \leftarrow (\nu_7^1)^{1f}$, R-Zweig

9 ← 8		
10 ← 9	545.228 698	0.000 046
11 ← 10	545.324 529	0.000 791
12 ← 11	545.418 009	−0.000 838
13 ← 12		
14 ← 13	545.608 208	−0.000 924
15 ← 14	545.704 747	0.000 441
16 ← 15	545.800 034	0.000 532
17 ← 16	545.895 883	0.001 164
18 ← 17	545.990 237	0.000 281
19 ← 18	546.085 381	0.000 168
20 ← 19	546.180 409	−0.000 081
21 ← 20	546.274 792	−0.000 994
22 ← 21	546.370 661	−0.000 440
23 ← 22	546.466 082	−0.000 353
24 ← 23	546.561 450	−0.000 336
25 ← 24	546.656 830	−0.000 325
26 ← 25	546.752 509	−0.000 031
27 ← 26		
28 ← 27	546.942 944	−0.000 416
29 ← 28	547.038 308	−0.000 486
30 ← 29	547.134 076	−0.000 166
31 ← 30	547.229 223	−0.000 481
32 ← 31	547.325 777	0.000 598
33 ← 32		
34 ← 33	547.515 899	−0.000 270
35 ← 34	547.611 903	0.000 222
36 ← 35	547.708 268	0.001 064
37 ← 36		
38 ← 37	547.898 029	−0.000 252
39 ← 38	547.994 347	0.000 513
40 ← 39	548.089 216	−0.000 178
41 ← 40	548.185 350	0.000 388
42 ← 41	548.281 147	0.000 611
43 ← 42	548.375 238	−0.000 879
44 ← 43	548.472 355	0.000 653
45 ← 44		
46 ← 45	548.662 705	−0.000 181
47 ← 46	548.758 735	0.000 252
48 ← 47	548.853 797	−0.000 284
49 ← 48	548.949 603	−0.000 079
50 ← 49	549.045 372	0.000 090
51 ← 50	549.140 393	−0.000 489
52 ← 51	549.236 530	0.000 049
53 ← 52	549.331 741	−0.000 337
54 ← 53	549.427 146	−0.000 527
55 ← 54	549.523 483	0.000 219
56 ← 55	549.618 814	−0.000 036
57 ← 56	549.714 530	0.000 099

58 ← 57	556.877 248	0.000 259
59 ← 58	556.972 862	0.000 055
60 ← 59	557.068 348	−0.000 311
61 ← 60	557.164 679	0.000 134
62 ← 61	557.260 411	−0.000 057
63 ← 62	557.356 463	0.000 036
64 ← 63	557.452 738	0.000 314
65 ← 64	557.548 490	0.000 031
66 ← 65	557.644 589	0.000 056
67 ← 66	557.740 679	0.000 032
68 ← 67	557.836 764	−0.000 037
69 ← 68	557.932 998	0.000 000
70 ← 69	558.029 328	0.000 091
71 ← 70	558.126 274	0.000 754
72 ← 71	558.221 877	0.000 030
73 ← 72	558.318 276	0.000 057
74 ← 73	558.414 716	0.000 078
75 ← 74	558.510 885	−0.000 219
76 ← 75	558.607 671	0.000 053
77 ← 76	558.704 517	0.000 335
78 ← 77	558.801 145	0.000 350
79 ← 78	558.897 557	0.000 097
80 ← 79	558.993 976	−0.000 201
81 ← 80	559.090 919	−0.000 028
82 ← 81	559.187 807	0.000 036
83 ← 82	559.284 056	−0.000 594
84 ← 83	559.381 287	−0.000 299
85 ← 84	559.479 183	0.000 604
86 ← 85	559.576 933	0.001 303 *
87 ← 86		
88 ← 87	559.769 518	−0.000 394
89 ← 88	559.867 430	0.000 285
90 ← 89	559.964 660	0.000 219
91 ← 90		
92 ← 91	560.158 034	−0.001 191 *
93 ← 92	560.257 122	0.000 407
94 ← 93	560.355 187	0.000 914
95 ← 94	560.451 629	−0.000 270
96 ← 95	560.549 459	−0.000 135
97 ← 96	560.646 258	−0.001 102
98 ← 97	560.745 148	−0.000 050
99 ← 98	560.842 617	−0.000 492
100 ← 99	560.941 023	−0.000 071
101 ← 100		
102 ← 101		
105 ← 104	561.432 616	0.000 442
106 ← 105	561.529 795	−0.000 834
107 ← 106	561.630 109	0.000 942
108 ← 107	561.727 376	−0.000 413
110 ← 109	561.925 259	−0.000 030
111 ← 110	562.024 355	0.000 186
113 ← 112	562.222 250	0.000 052
114 ← 113	562.322 045	0.000 697

$(\nu_5^1+\nu_7^1)^{2e} \leftarrow (\nu_7^1)^{1e}$, P-Zweig

9 ← 10	543.972 103	0.000 140
10 ← 11	543.878 860	0.000 204
11 ← 12	543.785 048	−0.000 442
12 ← 13	543.692 300	−0.000 165

58 ← 57	549.809 984	−0.000 023
59 ← 58	549.905 370	−0.000 205
60 ← 59	550.000 944	−0.000 192
61 ← 60	550.096 234	−0.000 454
62 ← 61		
63 ← 62	550.287 860	0.000 095
64 ← 63	550.383 812	0.000 525
65 ← 64	550.478 978	0.000 180
66 ← 65	550.574 390	0.000 093
67 ← 66	550.670 155	0.000 373
68 ← 67	550.765 368	0.000 114
69 ← 68	550.861 773	0.001 062
70 ← 69	550.956 590	0.000 437
71 ← 70		
72 ← 71	551.147 094	0.000 106
73 ← 72	551.243 430	0.001 050
74 ← 73	551.337 485	−0.000 270
75 ← 74	551.433 547	0.000 437
76 ← 75	551.528 421	−0.000 026
77 ← 76	551.623 547	−0.000 217
78 ← 77	551.718 150	−0.000 910
79 ← 78		
80 ← 79	551.909 206	−0.000 385
81 ← 80	552.004 404	−0.000 419
82 ← 81		
83 ← 82	552.195 561	0.000 340
84 ← 83		
85 ← 84	552.385 187	−0.000 340
86 ← 85	552.480 073	−0.000 571
87 ← 86	552.575 289	−0.000 447
88 ← 87	552.670 835	0.000 031
89 ← 88	552.764 746	−0.001 102
90 ← 89		
91 ← 90	552.955 174	−0.000 684
92 ← 91	553.050 833	0.000 008
93 ← 92	553.145 916	0.000 149
94 ← 93		
95 ← 94		
96 ← 95	553.429 889	−0.000 545
97 ← 96	553.525 069	−0.000 202
98 ← 97		
99 ← 98		
100 ← 99		
101 ← 100	553.904 391	0.000 037
102 ← 101	553.998 577	−0.000 481
105 ← 104		
106 ← 105		
107 ← 106		
108 ← 107		
110 ← 109		
111 ← 110		
113 ← 112		
114 ← 113		

$(\nu_5^1+\nu_7^1)^{2f} \leftarrow (\nu_7^1)^{1f}$, P-Zweig

9 ← 10	543.965 781	0.000 233
10 ← 11	543.870 944	−0.000 018
11 ← 12	543.776 526	0.000 125
12 ← 13	543.681 187	−0.000 678

13 ←	14	543.599 275	−0.000 305	13 ←	14	543.587 709	0.000 354
14 ←	15	543.506 144	−0.000 691	14 ←	15	543.493 270	0.000 399
15 ←	16	543.413 553	−0.000 678	15 ←	16	543.399 205	0.000 790
16 ←	17	543.322 034	0.000 267	16 ←	17	543.304 866	0.000 881
17 ←	18	543.230 105	0.000 662	17 ←	18	543.208 657	−0.000 925
18 ←	19	543.137 384	0.000 125	18 ←	19	543.114 667	−0.000 540
19 ←	20	543.045 082	−0.000 134	19 ←	20	543.020 637	−0.000 224
20 ←	21	542.953 376	0.000 063	20 ←	21	542.926 860	0.000 316
21 ←	22	542.860 761	−0.000 789	21 ←	22	542.833 012	0.000 757
22 ←	23	542.769 966	0.000 039	22 ←	23		
23 ←	24	542.678 517	0.000 073	23 ←	24	542.643 415	−0.000 354
24 ←	25	542.586 915	−0.000 186	24 ←	25	542.548 926	−0.000 646
25 ←	26	542.495 980	0.000 083	25 ←	26	542.455 165	−0.000 242
26 ←	27	542.405 692	0.000 859	26 ←	27	542.361 587	0.000 314
27 ←	28	542.314 253	0.000 344	27 ←	28	542.267 130	−0.000 043
28 ←	29	542.222 636	−0.000 489	28 ←	29	542.172 749	−0.000 357
29 ←	30	542.133 283	0.000 804	29 ←	30	542.079 783	0.000 710
30 ←	31	542.042 325	0.000 352	30 ←	31	541.984 777	−0.000 298
31 ←	32	541.951 355	−0.000 252	31 ←	32	541.891 583	0.000 470
32 ←	33	541.860 884	−0.000 495	32 ←	33	541.796 625	−0.000 562
33 ←	34	541.771 497	0.000 207	33 ←	34	541.703 342	0.000 044
34 ←	35	541.681 305	−0.000 035	34 ←	35	541.609 776	0.000 330
35 ←	36	541.591 797	0.000 268	35 ←	36	541.515 747	0.000 113
36 ←	37	541.501 772	−0.000 084	36 ←	37	541.422 123	0.000 262
37 ←	38	541.412 423	0.000 102	37 ←	38	541.328 500	0.000 372
38 ←	39	541.323 888	0.000 963	38 ←	39	541.234 206	−0.000 230
39 ←	40	541.234 206	0.000 540	39 ←	40	541.140 890	0.000 103
40 ←	41	541.144 688	0.000 142	40 ←	41	541.047 248	0.000 068
41 ←	42	541.056 083	0.000 520	41 ←	42	540.953 402	−0.000 215
42 ←	43	540.966 476	−0.000 242	42 ←	43	540.860 026	−0.000 072
43 ←	44	540.878 680	0.000 670	43 ←	44	540.766 126	−0.000 500
44 ←	45	540.789 859	0.000 420	44 ←	45	540.673 228	0.000 029
45 ←	46	540.700 544	−0.000 462	45 ←	46	540.579 508	−0.000 313
46 ←	47	540.613 356	0.000 647	46 ←	47	540.486 140	−0.000 350
47 ←	48	540.524 857	0.000 309	47 ←	48	540.393 341	0.000 131
48 ←	49	540.436 375	−0.000 149	48 ←	49	540.300 042	0.000 063
49 ←	50	540.348 783	0.000 147	49 ←	50	540.206 945	0.000 145
50 ←	51	540.260 972	0.000 089	50 ←	51	540.113 798	0.000 124
51 ←	52	540.173 654	0.000 387	51 ←	52	540.020 646	0.000 046
52 ←	53	540.085 243	−0.000 542	52 ←	53	539.927 702	0.000 120
53 ←	54	539.998 865	0.000 426	53 ←	54	539.834 208	−0.000 410
54 ←	55	539.911 066	−0.000 162	54 ←	55	539.741 963	0.000 251
55 ←	56	539.823 730	−0.000 421	55 ←	56	539.649 655	0.000 792
56 ←	57	539.737 642	0.000 433	56 ←	57	539.555 708	−0.000 364
57 ←	58	539.649 655	−0.000 746	57 ←	58	539.463 730	0.000 389
58 ←	59	539.563 840	0.000 113	58 ←	59	539.370 470	−0.000 201
59 ←	60	539.477 284	0.000 098	59 ←	60	539.277 941	−0.000 121
60 ←	61	539.391 158	0.000 380	60 ←	61		
61 ←	62	539.304 399	−0.000 104	61 ←	62	539.093 578	0.000 544
62 ←	63	539.218 447	0.000 086	62 ←	63	539.000 413	−0.000 204
63 ←	64	539.132 293	−0.000 059	63 ←	64	538.907 492	−0.000 773
64 ←	65	539.046 628	0.000 154	64 ←	65	538.816 001	0.000 020
65 ←	66	538.960 777	0.000 049	65 ←	66	538.723 513	−0.000 251
66 ←	67	538.874 239	−0.000 874	66 ←	67	538.632 162	0.000 545
67 ←	68	538.789 673	0.000 044	67 ←	68	538.539 721	0.000 182
68 ←	69			68 ←	69	538.448 230	0.000 698
69 ←	70			69 ←	70	538.355 360	−0.000 237
70 ←	71	538.534 407	0.000 447	70 ←	71	538.264 007	0.000 271

71 ← 72	538.448 230	−0.000 767
72 ← 73	538.364 188	0.000 025
73 ← 74	538.279 696	0.000 239
74 ← 75	538.194 825	−0.000 055
75 ← 76	538.110 255	−0.000 176
76 ← 77	538.026 287	0.000 177
77 ← 78	537.942 389	0.000 473
78 ← 79	537.858 230	0.000 381
79 ← 80	537.774 736	0.000 828
80 ← 81		
81 ← 82	537.605 583	−0.000 820
82 ← 83	537.522 731	−0.000 107
83 ← 84	537.439 887	0.000 488
84 ← 85	537.355 952	−0.000 131
85 ← 86	537.272 572	−0.000 319
86 ← 87		
87 ← 88	537.106 625	−0.000 250
88 ← 89	537.023 892	−0.000 159
89 ← 90	536.941 564	0.000 215
90 ← 91	536.859 004	0.000 236
91 ← 92	536.776 332	0.000 025
92 ← 93	536.694 006	0.000 039
93 ← 94	536.611 311	−0.000 435
94 ← 95	536.529 008	−0.000 636
95 ← 96	536.447 094	−0.000 567
96 ← 97		
97 ← 98	536.283 654	−0.000 394
98 ← 99	536.202 240	−0.000 177
99 ← 100	536.120 541	−0.000 361
100 ← 101		
101 ← 102	535.958 547	0.000 327
102 ← 103	535.876 810	−0.000 240
103 ← 104	535.795 977	−0.000 018
104 ← 105	535.715 301	0.000 248
105 ← 106	535.634 535	0.000 312
106 ← 107	535.552 852	−0.000 654
107 ← 108	535.472 416	−0.000 484
108 ← 109	535.392 495	0.000 090
109 ← 110	535.311 674	−0.000 346
110 ← 111	535.231 353	−0.000 391
111 ← 112	535.150 926	−0.000 651
112 ← 113	535.071 145	−0.000 373
113 ← 114	534.990 859	−0.000 708
114 ← 115	534.911 956	0.000 234
115 ← 116	534.831 074	−0.000 910
116 ← 117	534.752 008	−0.000 343
117 ← 118		
118 ← 119	534.593 402	0.000 005
119 ← 120		
120 ← 121	534.434 500	−0.000 357
121 ← 122	534.355 549	−0.000 191
122 ← 123		
123 ← 124		
124 ← 125		

$(\nu_5^1 + \nu_7^1)^{2f} \leftarrow (\nu_7^1)^{1e}$, Q-Zweig

25 ← 25	544.958 607	−0.000 072
26 ← 26	544.962 049	−0.000 334
27 ← 27	544.966 100	−0.000 133

71 ← 72	538.172 250	0.000 303
72 ← 73	538.079 327	−0.000 907
73 ← 74	537.989 194	0.000 597
74 ← 75	537.896 431	−0.000 605
75 ← 76	537.805 605	0.000 052
76 ← 77	537.714 252	0.000 104
77 ← 78	537.622 904	0.000 082
78 ← 79	537.531 511	−0.000 066
79 ← 80	537.439 887	−0.000 526
80 ← 81	537.349 584	0.000 254
81 ← 82	537.258 611	0.000 280
82 ← 83	537.167 764	0.000 350
83 ← 84	537.077 563	0.000 981
84 ← 85		
85 ← 86	536.894 374	−0.000 798
86 ← 87	536.804 100	−0.000 497
87 ← 88	536.713 594	−0.000 514
88 ← 89	536.623 646	−0.000 061
89 ← 90	536.533 336	−0.000 058
90 ← 91	536.443 168	−0.000 001
91 ← 92	536.353 404	0.000 370
92 ← 93	536.262 664	−0.000 325
93 ← 94	536.172 230	−0.000 803
94 ← 95	536.082 534	−0.000 635
95 ← 96	535.992 748	−0.000 648
96 ← 97	535.903 161	−0.000 554
97 ← 98	535.813 666	−0.000 459
98 ← 99	535.724 425	−0.000 203
99 ← 100	535.634 535	−0.000 689
100 ← 101	535.545 862	−0.000 052
101 ← 102	535.456 489	−0.000 207
102 ← 103	535.367 523	−0.000 049
103 ← 104	535.278 392	−0.000 151
104 ← 105	535.189 420	−0.000 187
105 ← 106	535.100 495	−0.000 272
106 ← 107	535.011 660	−0.000 360
107 ← 108	534.923 347	−0.000 022
108 ← 109	534.834 870	0.000 057
109 ← 110	534.745 893	−0.000 459
110 ← 111	534.657 397	−0.000 589
111 ← 112	534.569 718	0.000 002
112 ← 113	534.481 052	−0.000 489
113 ← 114	534.393 492	0.000 030
114 ← 115		
115 ← 116	534.216 884	−0.000 706
116 ← 117	534.130 401	0.000 603
117 ← 118	534.040 966	−0.001 135
118 ← 119	533.954 227	−0.000 273
119 ← 120	533.867 022	0.000 027
120 ← 121	533.779 084	−0.000 501
121 ← 122	533.691 665	−0.000 606
122 ← 123	533.605 236	0.000 184
123 ← 124	533.517 571	−0.000 358
124 ← 125	533.430 899	−0.000 002

$(\nu_5^1 + \nu_7^1)^{2e} \leftarrow (\nu_7^1)^{1f}$, Q-Zweig

25 ← 25		
26 ← 26		
27 ← 27		

28 ← 28	544.970 241	0.000 011	28 ← 28
29 ← 29	544.974 693	0.000 317	29 ← 29
30 ← 30	544.978 832	0.000 162	30 ← 30
31 ← 31	544.983 090	−0.000 023	31 ← 31
32 ← 32	544.988 555	0.000 849	32 ← 32
33 ← 33	544.992 896	0.000 447	33 ← 33
34 ← 34	544.998 094	0.000 751	34 ← 34
35 ← 35	545.002 017	−0.000 371	35 ← 35
36 ← 36	545.007 418	−0.000 167	36 ← 36
37 ← 37	545.012 906	−0.000 029	37 ← 37
38 ← 38	545.018 735	0.000 296	38 ← 38
39 ← 39	545.024 066	−0.000 030	39 ← 39
40 ← 40	545.030 034	0.000 126	40 ← 40
41 ← 41	545.036 048	0.000 172	41 ← 41
42 ← 42	545.042 288	0.000 289	42 ← 42
43 ← 43	545.048 295	0.000 015	43 ← 43
44 ← 44	545.054 952	0.000 234	44 ← 44
45 ← 45	545.060 754	−0.000 560	45 ← 45
46 ← 46	545.067 954	−0.000 115	46 ← 46
47 ← 47	545.075 261	0.000 277	47 ← 47
48 ← 48	545.082 005	−0.000 055	48 ← 48
49 ← 49	545.089 411	0.000 115	49 ← 49
50 ← 50	545.097 043	0.000 348	50 ← 50
51 ← 51	545.104 936	0.000 679	51 ← 51
52 ← 52	545.112 988	0.001 006	52 ← 52
53 ← 53	545.119 390	−0.000 482	53 ← 53
54 ← 54	545.128 003	0.000 076	54 ← 54
55 ← 55	545.135 477	−0.000 671	55 ← 55
56 ← 56	545.145 201	0.000 666	56 ← 56
57 ← 57	545.153 442	0.000 352	57 ← 57
58 ← 58	545.161 545	−0.000 269	58 ← 58
59 ← 59	545.171 120	0.000 414	59 ← 59
60 ← 60	545.179 897	0.000 128	60 ← 60
61 ← 61	545.188 911	−0.000 091	61 ← 61
62 ← 62	545.198 152	−0.000 254	62 ← 62
63 ← 63	545.207 602	−0.000 381	63 ← 63
64 ← 64	545.217 761	0.000 028	64 ← 64
65 ← 65	545.228 698	0.001 042	65 ← 65
66 ← 66	545.238 417	0.000 663	66 ← 66
67 ← 67	545.248 301	0.000 275	67 ← 67
68 ← 68	545.258 537	0.000 062	68 ← 68
69 ← 69	545.268 943	−0.000 157	69 ← 69
70 ← 70	545.279 923	0.000 021	70 ← 70
71 ← 71	545.291 548	0.000 666	71 ← 71
72 ← 72	545.302 460	0.000 419	72 ← 72
73 ← 73	545.313 171	−0.000 208	73 ← 73
74 ← 74	545.324 529	−0.000 368	74 ← 74
81 ← 81	545.411 341	0.000 740	81 ← 81
82 ← 82	545.424 705	0.001 128	82 ← 82
83 ← 83	545.437 089	0.000 353	83 ← 83
85 ← 85	545.462 806	−0.000 805	85 ← 85
86 ← 86	545.477 463	0.000 137	86 ← 86
88 ← 88	545.504 308	−0.001 007	88 ← 88
89 ← 89	545.520 211	0.000 623	89 ← 89
90 ← 90	545.535 154	0.001 106	90 ← 90
91 ← 91	545.548 459	−0.000 236	91 ← 91
92 ← 92	545.563 552	0.000 023	92 ← 92
93 ← 93	545.577 287	−0.001 264	93 ← 93

94 ←	94	545.593 205	−0.000 554
95 ←	95	545.608 208	−0.000 947
96 ←	96	545.623 932	−0.000 807
97 ←	97	545.640 329	−0.000 181
98 ←	98	545.655 601	−0.000 867
99 ←	99	545.672 831	0.000 216
100 ←	100	545.689 962	0.001 014
101 ←	101	545.704 747	−0.000 723
102 ←	102	545.721 681	−0.000 498
103 ←	103	545.740 231	0.001 156
104 ←	104	545.755 188	−0.000 971
105 ←	105	545.773 023	−0.000 406
106 ←	106	545.790 115	−0.000 772

$(\nu_5^1+\nu_7^1)^{2e} \leftarrow (\nu_7^1)^{1e}$, R-Zweig

6 ←	5		
7 ←	6	545.580 157	0.000 505
8 ←	7	545.676 065	0.000 581
10 ←	9	545.868 044	0.000 478
12 ←	11	546.059 984	−0.000 222
13 ←	12	546.156 316	−0.000 419
14 ←	13		
15 ←	14	546.349 332	−0.000 879
16 ←	15	546.447 990	0.000 833
17 ←	16	546.543 810	−0.000 433
18 ←	17	546.641 233	−0.000 234
19 ←	18	546.739 909	0.001 079
20 ←	19	546.836 208	−0.000 123
21 ←	20		
22 ←	21	547.032 514	0.000 765
23 ←	22	547.129 633	−0.000 031
24 ←	23		
25 ←	24	547.325 778	−0.000 132
26 ←	25	547.424 257	0.000 018
27 ←	26	547.522 297	−0.000 408
28 ←	27	547.621 658	0.000 349
29 ←	28	547.721 004	0.000 955
30 ←	29	547.819 350	0.000 424
31 ←	30	547.917 813	−0.000 127
32 ←	31	548.016 894	−0.000 196
33 ←	32	548.116 306	−0.000 071
34 ←	33	548.216 298	0.000 499
35 ←	34	548.314 674	−0.000 683
36 ←	35	548.415 028	−0.000 023
37 ←	36	548.515 680	0.000 800
38 ←	37	548.614 985	0.000 141
39 ←	38	548.715 132	0.000 190
40 ←	39	548.815 286	0.000 110
41 ←	40	548.915 380	−0.000 163
42 ←	41	549.015 723	−0.000 321
43 ←	42	549.116 562	−0.000 118
44 ←	43	549.217 805	0.000 357
45 ←	44	549.318 918	0.000 568
46 ←	45	549.418 968	−0.000 417
47 ←	46	549.520 022	−0.000 530
48 ←	47	549.622 039	0.000 187
49 ←	48	549.723 741	0.000 457
50 ←	49	549.825 575	0.000 728
51 ←	50	549.926 704	0.000 162

94 ←	94		
95 ←	95		
96 ←	96		
97 ←	97		
98 ←	98		
99 ←	99		
100 ←	100		
101 ←	101		
102 ←	102		
103 ←	103		
104 ←	104		
105 ←	105		
106 ←	106		

$(\nu_5^1+\nu_7^1)^{2f} \leftarrow (\nu_7^1)^{1f}$, R-Zweig

6 ←	5	545.482 447	0.000 236
7 ←	6	545.577 287	0.000 084
8 ←	7	545.672 831	0.000 612
10 ←	9		
12 ←	11	546.052 222	−0.000 301
13 ←	12	546.147 848	0.000 187
14 ←	13	546.243 612	0.000 789
15 ←	14		
16 ←	15	546.432 574	−0.000 650
17 ←	16	546.528 597	0.000 134
18 ←	17	546.623 260	−0.000 468
19 ←	18	546.719 129	0.000 109
20 ←	19	546.814 426	0.000 087
21 ←	20	546.910 024	0.000 338
22 ←	21	547.005 130	0.000 070
23 ←	22	547.100 638	0.000 176
24 ←	23	547.195 641	−0.000 253
25 ←	24	547.290 849	−0.000 505
26 ←	25	547.385 988	−0.000 857
27 ←	26	547.482 316	−0.000 049
28 ←	27	547.577 451	−0.000 466
29 ←	28	547.673 772	0.000 272
30 ←	29	547.768 418	−0.000 697
31 ←	30	547.864 223	−0.000 540
32 ←	31	547.960 712	0.000 267
33 ←	32	548.056 026	−0.000 134
34 ←	33	548.151 885	−0.000 025
35 ←	34	548.247 975	0.000 279
36 ←	35	548.343 704	0.000 186
37 ←	36	548.440 214	0.000 837
38 ←	37	548.535 454	0.000 181
39 ←	38	548.631 227	0.000 019
40 ←	39	548.727 089	−0.000 093
41 ←	40	548.823 170	−0.000 026
42 ←	41	548.919 945	0.000 694
43 ←	42	549.015 723	0.000 376
44 ←	43	549.111 737	0.000 251
45 ←	44	549.207 885	0.000 216
46 ←	45	549.303 919	0.000 024
47 ←	46	549.400 757	0.000 590
48 ←	47	549.496 615	0.000 130
49 ←	48	549.592 570	−0.000 280
50 ←	49	549.688 782	−0.000 481
51 ←	50	549.786 196	0.000 472

52 ← 51	550.028 158	−0.000 210
53 ← 52	550.131 200	0.000 876
54 ← 53	550.232 091	−0.000 320
55 ← 54	550.334 585	−0.000 043
56 ← 55	550.437 415	0.000 440
57 ← 56		
58 ← 57		
59 ← 58	550.745 050	0.000 261
60 ← 59		
61 ← 60	550.949 870	−0.000 771
62 ← 61		
63 ← 62		
64 ← 63	551.261 261	0.000 888
65 ← 64	551.364 108	0.000 238
66 ← 65	551.466 524	−0.000 970
67 ← 66	551.572 242	0.001 000
68 ← 67	551.675 826	0.000 710
69 ← 68	551.779 001	−0.000 113
70 ← 69	551.883 206	−0.000 030
71 ← 70	551.987 713	0.000 231
72 ← 71	552.091 703	−0.000 148
73 ← 72	552.195 561	−0.000 782
74 ← 73	552.300 612	−0.000 345
75 ← 74	552.406 469	0.000 776
76 ← 75	552.510 726	0.000 175
77 ← 76	552.616 086	0.000 557
78 ← 77	552.721 304	0.000 676
79 ← 78	552.826 369	0.000 523
80 ← 79		
81 ← 80	553.036 033	−0.000 608
82 ← 81	553.142 302	0.000 086
83 ← 82	553.247 325	−0.000 584
84 ← 83	553.353 231	−0.000 488
85 ← 84	553.459 153	−0.000 493
86 ← 85	553.564 768	−0.000 920
87 ← 86	553.672 160	0.000 313
88 ← 87	553.777 717	−0.000 403
89 ← 88	553.883 911	−0.000 597
90 ← 89	553.992 125	0.001 115
91 ← 90	554.098 183	0.000 558
92 ← 91	554.205 320	0.000 968
93 ← 92	554.310 792	−0.000 400
94 ← 93	554.417 771	−0.000 372
95 ← 94	554.525 009	−0.000 196
96 ← 95	554.631 866	−0.000 511
97 ← 96	554.738 534	−0.001 124
98 ← 97	554.846 400	−0.000 649
99 ← 98	554.955 237	0.000 689
100 ← 99	555.061 982	−0.000 172
101 ← 100		
102 ← 101	555.278 182	0.000 495
103 ← 102		
104 ← 103	555.493 894	0.000 252
105 ← 104	555.601 261	−0.000 515
106 ← 105	555.710 017	0.000 003
107 ← 106	555.818 638	0.000 284
108 ← 107	555.926 339	−0.000 458
109 ← 108	556.035 379	0.000 038

52 ← 51	549.882 109	−0.000 127
53 ← 52	549.979 207	0.000 409
54 ← 53	550.075 500	0.000 089
55 ← 54	550.172 213	0.000 136
56 ← 55	550.267 975	−0.000 822
57 ← 56	550.365 361	−0.000 210
58 ← 57	550.463 092	0.000 692
59 ← 58	550.559 388	0.000 102
60 ← 59	550.656 076	−0.000 153
61 ← 60	550.753 555	0.000 325
62 ← 61	550.850 501	0.000 210
63 ← 62	550.948 268	0.000 856
64 ← 63	551.043 619	−0.000 975
65 ← 64	551.141 634	−0.000 204
66 ← 65	551.238 401	−0.000 744
67 ← 66	551.337 485	0.000 970
68 ← 67	551.433 547	−0.000 404
69 ← 68	551.531 385	−0.000 067
70 ← 69	551.629 030	0.000 010
71 ← 70	551.726 677	0.000 021
72 ← 71	551.824 536	0.000 177
73 ← 72	551.921 910	−0.000 222
74 ← 73	552.020 307	0.000 332
75 ← 74	552.117 739	−0.000 150
76 ← 75	552.217 021	0.001 146
77 ← 76	552.313 879	−0.000 054
78 ← 77	552.412 366	0.000 302
79 ← 78	552.510 726	0.000 457
80 ← 79	552.608 798	0.000 249
81 ← 80	552.707 249	0.000 345
82 ← 81	552.805 961	0.000 626
83 ← 82	552.904 979	0.001 135 *
84 ← 83	553.002 690	0.000 261
85 ← 84	553.099 805	−0.001 287 *
86 ← 85	553.199 073	−0.000 762
87 ← 86	553.298 143	−0.000 513
88 ← 87	553.396 956	−0.000 601
89 ← 88	553.496 801	0.000 263
90 ← 89	553.595 116	−0.000 484
91 ← 90	553.694 341	−0.000 402
92 ← 91	553.793 736	−0.000 232
93 ← 92	553.892 448	−0.000 827
94 ← 93	553.992 125	−0.000 539
95 ← 94	554.091 550	−0.000 587
96 ← 95	554.191 887	0.000 195
97 ← 96	554.291 364	0.000 032
98 ← 97	554.391 539	0.000 484
99 ← 98	554.490 132	−0.000 730
100 ← 99	554.590 455	−0.000 299
101 ← 100	554.689 931	−0.000 799
102 ← 101	554.790 857	0.000 066
103 ← 102	554.890 578	−0.000 360
104 ← 103	554.990 427	−0.000 742
105 ← 104	555.090 437	−0.001 049
106 ← 105	555.191 081	−0.000 808
107 ← 106		
108 ← 107	555.393 303	0.000 353
109 ← 108	555.493 894	0.000 284

110 ← 109	556.143 845	−0.000 141	
111 ← 110	556.252 888	0.000 158	
112 ← 111	556.361 859	0.000 285	
113 ← 112	556.470 503	−0.000 013	
114 ← 113	556.579 609	0.000 054	
115 ← 114	556.689 095	0.000 403	
116 ← 115	556.797 486	−0.000 438	
117 ← 116	556.907 054	−0.000 198	
119 ← 118	557.126 615	0.000 424	
120 ← 119	557.235 525	−0.000 275	
121 ← 120			
122 ← 121			
123 ← 122			
124 ← 123			
125 ← 124			

$(\nu_5^1 + 2\nu_7^0)^{1e} \leftarrow (2\nu_7^0)^{0e}$, P-Zweig

3 ← 4	544.958 607	0.000 287	
4 ← 5	544.864 265	0.000 557	
5 ← 6	544.768 278	−0.000 968	
7 ← 8	544.581 214	0.000 441	
8 ← 9	544.487 296	0.000 534	
9 ← 10	544.392 234	−0.000 669	
10 ← 11	544.299 462	0.000 266	
11 ← 12	544.206 483	0.000 841	
12 ← 13	544.111 145	−0.001 096	
13 ← 14	544.019 590	0.000 597	
14 ← 15	543.925 502	−0.000 398	
15 ← 16	543.833 583	0.000 621	
16 ← 17	543.739 981	−0.000 199	
17 ← 18	543.647 637	0.000 083	
18 ← 19	543.554 693	−0.000 394	
19 ← 20	543.462 391	−0.000 386	
21 ← 22	543.279 230	0.000 592	
22 ← 23	543.186 614	−0.000 196	
23 ← 24	543.094 608	−0.000 537	
24 ← 25	543.003 928	0.000 285	
25 ← 26	542.912 207	−0.000 098	
26 ← 27	542.821 213	0.000 079	
27 ← 28	542.730 073	−0.000 056	
28 ← 29	542.639 187	−0.000 106	
29 ← 30	542.548 926	0.000 300	
31 ← 32	542.367 618	−0.000 188	
32 ← 33	542.278 215	0.000 559	
33 ← 34	542.187 565	−0.000 116	
34 ← 35	542.097 645	−0.000 236	
35 ← 36	542.009 446	0.001 186	
36 ← 37	541.919 045	0.000 228	
37 ← 38	541.830 009	0.000 454	
38 ← 39	541.740 370	−0.000 106	
39 ← 40	541.651 564	−0.000 016	
40 ← 41	541.562 838	−0.000 031	
41 ← 42	541.473 986	−0.000 358	
43 ← 44	541.297 273	−0.000 589	
44 ← 45	541.209 606	−0.000 301	
45 ← 46	541.122 528	0.000 384	
46 ← 47	541.033 901	−0.000 676	
47 ← 48	540.946 669	−0.000 536	
48 ← 49	540.860 026	−0.000 005	

110 ← 109	555.593 204	−0.001 151 *
111 ← 110	555.695 348	0.000 161
112 ← 111	555.797 379	0.001 275 *
113 ← 112	555.897 679	0.000 572
114 ← 113	555.998 836	0.000 640
115 ← 114	556.100 092	0.000 722
116 ← 115	556.201 947	0.001 316
117 ← 116	556.303 011	0.001 034
119 ← 118		
120 ← 119		
121 ← 120	556.708 880	0.000 664
122 ← 121	556.810 893	0.000 904
123 ← 122	556.912 546	0.000 699
124 ← 123	557.014 558	0.000 768
125 ← 124	557.115 737	−0.000 081

49 ← 50	540.773 067	0.000 012
50 ← 51	540.686 114	−0.000 167
51 ← 52	540.599 228	−0.000 480
52 ← 53	540.512 615	−0.000 724
53 ← 54	540.426 406	−0.000 769
55 ← 56	540.255 484	0.000 016
56 ← 57	540.169 493	−0.000 435
57 ← 58	540.085 243	0.000 644
58 ← 59	539.998 865	−0.000 616
59 ← 60	539.914 903	0.000 326
60 ← 61	539.829 140	−0.000 747
61 ← 62	539.745 457	0.000 045
62 ← 63	539.661 030	−0.000 125
63 ← 64	539.577 066	−0.000 049
64 ← 65	539.492 832	−0.000 462
65 ← 66	539.409 468	−0.000 224
66 ← 67	539.326 028	−0.000 283
67 ← 68	539.243 327	0.000 175
69 ← 70	539.077 523	0.000 024
70 ← 71	538.994 944	−0.000 064
71 ← 72	538.912 518	−0.000 222
72 ← 73	538.830 742	0.000 045
73 ← 74	538.748 552	−0.000 326
74 ← 75	538.666 879	−0.000 404
75 ← 76	538.586 218	0.000 304
76 ← 77	538.504 725	−0.000 045
77 ← 78	538.423 804	−0.000 046
78 ← 79	538.342 670	−0.000 485
80 ← 81	538.182 081	−0.000 358
81 ← 82	538.102 450	0.000 034
82 ← 83	538.022 019	−0.000 598
83 ← 84	537.942 389	−0.000 651
84 ← 85	537.864 116	0.000 430
85 ← 86	537.784 556	0.000 004
87 ← 88	537.627 058	0.000 114
88 ← 89	537.549 002	0.000 535
89 ← 90	537.469 583	−0.000 624
90 ← 91	537.392 030	−0.000 133
91 ← 92	537.314 615	0.000 282
92 ← 93	537.235 933	−0.000 782
93 ← 94	537.160 196	0.000 888
94 ← 95	537.082 542	0.000 432
95 ← 96	537.005 058	−0.000 061
97 ← 98	536.851 736	−0.000 017
98 ← 99	536.776 332	0.000 958
100 ← 101	536.623 646	0.000 435
101 ← 102	536.546 982	−0.000 441
102 ← 103	536.470 953	−0.000 874
103 ← 104	536.396 918	0.000 496
104 ← 105	536.321 536	0.000 331
105 ← 106	536.246 324	0.000 152
106 ← 107	536.172 230	0.000 907
107 ← 108	536.096 309	−0.000 344
108 ← 109	536.022 065	−0.000 095
109 ← 110	535.948 672	0.000 830
113 ← 114	535.651 535	−0.000 719
114 ← 115	535.579 048	0.000 284
115 ← 116	535.505 750	0.000 320

117 ← 118		535.358 783	−0.000 438
118 ← 119		535.286 720	0.000 382
119 ← 120		535.214 419	0.000 819
$(\nu_5^1 + 2\nu_7^0)^{1f} \leftarrow (2\nu_7^0)^{0e}$, Q-Zweig			
68 ←	68	545.411 341	0.000 737
69 ←	69	545.413 364	−0.000 574
70 ←	70	545.418 009	0.000 627
72 ←	72	545.424 705	0.000 100
73 ←	73	545.428 253	−0.000 135
74 ←	74	545.432 047	−0.000 239
75 ←	75	545.437 089	0.000 787
76 ←	76	545.439 631	−0.000 806
77 ←	77	545.445 007	0.000 315
78 ←	78	545.448 645	−0.000 425
79 ←	79	545.452 969	−0.000 601
80 ←	80	545.458 540	0.000 345
81 ←	81	545.462 806	−0.000 140
82 ←	82	545.467 010	−0.000 813
83 ←	83	545.473 122	0.000 294
84 ←	84	545.477 463	−0.000 500
85 ←	85	545.482 447	−0.000 780
86 ←	86	545.488 681	0.000 059
88 ←	88	545.500 248	0.000 439
90 ←	90	545.511 382	−0.000 147
91 ←	91	545.517 987	0.000 396
$(\nu_5^1 + 2\nu_7^0)^{1e} \leftarrow (2\nu_7^0)^{0e}$, R-Zweig			
4 ←	3	545.721 681	0.001 096
5 ←	4	545.817 587	0.001 049
6 ←	5	545.913 716	0.001 077
7 ←	6	546.009 652	0.000 762
8 ←	7	546.105 912	0.000 622
9 ←	8	546.202 662	0.000 822
10 ←	9	546.299 152	0.000 613
11 ←	10	546.396 416	0.001 027
12 ←	11	546.493 179	0.000 790
13 ←	12	546.589 293	−0.000 247
14 ←	13	546.686 461	−0.000 381
15 ←	14	546.784 085	−0.000 211
16 ←	15	546.881 725	−0.000 178
17 ←	16	546.979 280	−0.000 382
18 ←	17	547.077 472	−0.000 104
19 ←	18	547.175 517	−0.000 126
20 ←	19	547.274 214	0.000 348
21 ←	20	547.372 525	0.000 280
22 ←	21	547.470 987	0.000 207
23 ←	22	547.569 571	0.000 099
24 ←	23	547.668 943	0.000 620
25 ←	24	547.768 418	0.001 085
26 ←	25	547.865 810	−0.000 693
27 ←	26	547.965 972	0.000 138
28 ←	27	548.065 255	−0.000 072
29 ←	28	548.165 237	0.000 253
30 ←	29	548.264 341	−0.000 463
31 ←	30	548.364 034	−0.000 756
32 ←	31	548.465 101	0.000 158
33 ←	32	548.565 673	0.000 409
35 ←	34	548.766 156	−0.000 256
36 ←	35	548.867 653	0.000 410

37 ← 36	548.968 264	0.000 017
38 ← 37	549.069 391	−0.000 034
39 ← 38	549.170 909	0.000 131
40 ← 39	549.272 372	0.000 064
41 ← 40	549.372 910	−0.001 105
42 ← 41	549.475 950	0.000 047
44 ← 43	549.679 135	−0.001 086
45 ← 44	549.782 888	0.000 233
46 ← 45	549.886 191	0.000 917
47 ← 46	549.987 880	−0.000 200
48 ← 47	550.091 353	0.000 280
49 ← 48	550.193 701	−0.000 555
50 ← 49	550.297 640	0.000 011
51 ← 50	550.401 110	−0.000 085
52 ← 51	550.505 367	0.000 414
53 ← 52	550.608 715	−0.000 192
54 ← 53	550.712 780	−0.000 277
55 ← 54	550.817 715	0.000 311
56 ← 55	550.922 280	0.000 330
57 ← 56	551.026 747	0.000 051
60 ← 59	551.341 765	−0.000 382
61 ← 60	551.447 783	0.000 078
62 ← 61	551.553 994	0.000 525
63 ← 62	551.659 331	−0.000 109
64 ← 63	551.765 370	−0.000 249
65 ← 64	551.870 867	−0.001 139
66 ← 65	551.978 305	−0.000 298
67 ← 66	552.085 870	0.000 460
69 ← 68	552.300 612	0.000 954
70 ← 69	552.406 469	−0.000 632
71 ← 70	552.515 408	0.000 653
72 ← 71	552.622 098	−0.000 525
73 ← 72	552.730 818	0.000 113
74 ← 73	552.838 698	−0.000 302
75 ← 74	552.947 502	−0.000 007
76 ← 75	553.056 070	−0.000 163
77 ← 76	553.164 121	−0.001 049
78 ← 77	553.274 122	−0.000 199
79 ← 78	553.383 393	−0.000 293
80 ← 79	553.492 845	−0.000 419
81 ← 80	553.602 871	−0.000 184
82 ← 81	553.712 451	−0.000 608
84 ← 83	553.933 934	0.000 233
85 ← 84	554.044 531	0.000 192
86 ← 85	554.155 341	0.000 155
87 ← 86	554.266 374	0.000 133
88 ← 87	554.376 961	−0.000 543
89 ← 88	554.490 132	0.001 158
90 ← 89	554.600 893	0.000 244
91 ← 90	554.712 988	0.000 461
92 ← 91	554.824 570	−0.000 038
93 ← 92	554.935 910	−0.000 979
94 ← 93	555.049 918	0.000 548
96 ← 95	555.273 958	−0.000 963
97 ← 96	555.387 510	−0.000 478
98 ← 97	555.502 232	0.000 985
101 ← 100	555.841 222	−0.000 928
102 ← 101	555.956 829	0.000 675

$103 \leftarrow 102$	556.069 864	−0.000 473
$104 \leftarrow 103$	556.185 165	0.000 467
$107 \leftarrow 106$	556.529 523	0.000 699
$108 \leftarrow 107$	556.643 032	−0.000 838
$109 \leftarrow 108$	556.758 461	−0.000 621

$(\nu_5^1 + 2\nu_7^2)^{1e} \leftarrow (2\nu_7^2)^{2e}$, P-Zweig

$3 \leftarrow 4$		
$4 \leftarrow 5$	554.883 898	0.000 654
$6 \leftarrow 7$	554.689 931	−0.000 785
$7 \leftarrow 8$	554.595 311	0.001 147
$8 \leftarrow 9$	554.498 273	0.000 853
$9 \leftarrow 10$	554.400 161	−0.000 322
$10 \leftarrow 11$		
$11 \leftarrow 12$	554.205 320	−0.000 709
$12 \leftarrow 13$	554.109 656	0.001 145
$13 \leftarrow 14$	554.011 371	0.000 572
$14 \leftarrow 15$	553.912 569	−0.000 322
$15 \leftarrow 16$		
$16 \leftarrow 17$	553.717 485	0.000 995
$17 \leftarrow 18$	553.617 867	−0.000 127
$18 \leftarrow 19$	553.518 579	−0.000 722
$19 \leftarrow 20$	553.420 305	−0.000 105
$20 \leftarrow 21$	553.320 997	−0.000 324
$21 \leftarrow 22$	553.222 115	0.000 084
$22 \leftarrow 23$	553.122 025	−0.000 516
$23 \leftarrow 24$	553.022 339	−0.000 511
$24 \leftarrow 25$	552.923 330	0.000 373
$25 \leftarrow 26$	552.822 827	−0.000 034
$26 \leftarrow 27$		
$27 \leftarrow 28$	552.622 098	0.000 043
$28 \leftarrow 29$	552.521 134	−0.000 210
$29 \leftarrow 30$	552.421 597	0.001 172
$30 \leftarrow 31$	552.318 472	−0.000 827
$31 \leftarrow 32$	552.217 021	−0.000 942
$32 \leftarrow 33$		
$33 \leftarrow 34$		
$35 \leftarrow 36$		
$36 \leftarrow 37$		
$37 \leftarrow 38$	551.605 059	−0.000 432
$38 \leftarrow 39$	551.502 717	0.000 059
$39 \leftarrow 40$	551.399 622	0.000 016
$40 \leftarrow 41$	551.296 483	0.000 149
$41 \leftarrow 42$	551.192 891	0.000 050
$42 \leftarrow 43$	551.089 929	0.000 804
$43 \leftarrow 44$	550.985 388	0.000 204
$44 \leftarrow 45$	550.881 283	0.000 264
$45 \leftarrow 46$	550.776 372	−0.000 254
$46 \leftarrow 47$		
$47 \leftarrow 48$	550.566 969	−0.000 186
$48 \leftarrow 49$	550.463 092	0.001 018
$49 \leftarrow 50$	550.357 158	0.000 397
$51 \leftarrow 52$	550.145 087	−0.000 347
$52 \leftarrow 53$	550.039 679	0.000 263
$53 \leftarrow 54$	549.932 944	−0.000 218
$54 \leftarrow 55$	549.825 575	−0.001 094
$55 \leftarrow 56$		
$56 \leftarrow 57$		
$57 \leftarrow 58$		

$(\nu_5^1 + 2\nu_7^2)^{1f} \leftarrow (2\nu_7^2)^{2f}$, P-Zweig

$3 \leftarrow 4$	554.980 435	0.000 358
$4 \leftarrow 5$	554.883 898	−0.000 775
$6 \leftarrow 7$	554.694 522	0.000 801
$7 \leftarrow 8$		
$8 \leftarrow 9$	554.502 246	−0.000 331
$9 \leftarrow 10$	554.406 975	0.000 041
$10 \leftarrow 11$	554.310 792	−0.000 452
$11 \leftarrow 12$	554.215 399	−0.000 108
$12 \leftarrow 13$	554.120 191	0.000 468
$13 \leftarrow 14$		
$14 \leftarrow 15$	553.927 489	−0.000 528
$15 \leftarrow 16$	553.832 323	0.000 228
$16 \leftarrow 17$	553.735 996	−0.000 131
$17 \leftarrow 18$	553.639 915	−0.000 199
$18 \leftarrow 19$	553.543 802	−0.000 255
$19 \leftarrow 20$	553.448 899	0.000 944
$20 \leftarrow 21$		
$21 \leftarrow 22$	553.255 341	−0.000 278
$22 \leftarrow 23$	553.159 525	0.000 138
$23 \leftarrow 24$	553.063 810	0.000 698
$24 \leftarrow 25$		
$25 \leftarrow 26$	552.869 986	−0.000 449
$26 \leftarrow 27$	552.773 778	−0.000 257
$27 \leftarrow 28$	552.677 646	0.000 052
$28 \leftarrow 29$	552.580 631	−0.000 482
$29 \leftarrow 30$	552.484 810	0.000 218
$30 \leftarrow 31$	552.387 480	−0.000 553
$31 \leftarrow 32$	552.292 480	0.001 045
$32 \leftarrow 33$	552.195 561	0.000 761
$33 \leftarrow 34$	552.097 310	−0.000 817
$35 \leftarrow 36$	551.905 185	0.000 512
$36 \leftarrow 37$	551.807 984	0.000 091
$37 \leftarrow 38$	551.711 153	0.000 074
$38 \leftarrow 39$	551.613 782	−0.000 449
$39 \leftarrow 40$	551.516 814	−0.000 536
$40 \leftarrow 41$		
$41 \leftarrow 42$	551.323 419	−0.000 074
$42 \leftarrow 43$	551.225 490	−0.001 028
$43 \leftarrow 44$	551.128 453	−0.001 061
$44 \leftarrow 45$		
$45 \leftarrow 46$	550.934 280	−0.001 138
$46 \leftarrow 47$	550.838 870	0.000 541
$47 \leftarrow 48$	550.740 249	−0.000 964
$48 \leftarrow 49$	550.643 597	−0.000 476
$49 \leftarrow 50$	550.547 678	0.000 771
$51 \leftarrow 52$	550.352 975	0.000 469
$52 \leftarrow 53$	550.254 418	−0.000 854
$53 \leftarrow 54$		
$54 \leftarrow 55$	550.060 640	−0.000 103
$55 \leftarrow 56$	549.963 107	−0.000 342
$56 \leftarrow 57$	549.866 109	−0.000 029
$57 \leftarrow 58$	549.768 875	0.000 065

58 ← 59		
59 ← 60	549.290 980	0.000 399
60 ← 61	549.183 406	0.000 774
61 ← 62	549.074 065	−0.000 371
62 ← 63		
63 ← 64	548.858 263	0.000 963
64 ← 65	548.747 827	−0.000 531
65 ← 66	548.639 959	0.000 793
66 ← 67	548.530 378	0.000 655
67 ← 68		
68 ← 69		
70 ← 71		
71 ← 72		
72 ← 73		
73 ← 74		
74 ← 75	547.645 901	0.000 827
75 ← 76	547.532 557	−0.000 792
76 ← 77		
77 ← 78	547.308 537	−0.000 595
78 ← 79	547.195 641	−0.001 001
79 ← 80	547.083 352	−0.000 544
80 ← 81		
81 ← 82		
82 ← 83		
84 ← 85	546.515 555	−0.000 805
85 ← 86	546.402 217	0.000 122
86 ← 87	546.287 409	−0.000 169
87 ← 88	546.173 703	0.000 891
90 ← 91	545.826 595	−0.000 424
91 ← 92	545.712 259	0.000 998
92 ← 93		
96 ← 97		
97 ← 98		
98 ← 99		
99 ← 100		
100 ← 101		
101 ← 102		
104 ← 105		
107 ← 108		
108 ← 109		
109 ← 110	543.587 709	0.000 345
110 ← 111	543.466 656	−0.000 601
111 ← 112	543.346 365	−0.000 578
112 ← 113	543.226 110	−0.000 314

$(\nu_5^1 + 2\nu_7^2)^{1f} \leftarrow (2\nu_7^2)^{2e}$, Q-Zweig

18 ← 18		
19 ← 19		
20 ← 20		
22 ← 22		
23 ← 23		
24 ← 24		
25 ← 25		
26 ← 26		
27 ← 27		
28 ← 28		
29 ← 29		
30 ← 30		
31 ← 31		

58 ← 59	549.672 300	0.000 834
59 ← 60	549.574 962	0.000 854
60 ← 61	549.475 950	−0.000 786
61 ← 62	549.378 838	−0.000 513
62 ← 63	549.281 671	−0.000 284
63 ← 64	549.183 406	−0.001 142
64 ← 65	549.087 929	0.000 796
65 ← 66	548.990 515	0.000 806
66 ← 67	548.892 722	0.000 444
67 ← 68	548.794 975	0.000 133
68 ← 69	548.697 724	0.000 323
70 ← 71	548.503 276	0.000 766
71 ← 72	548.405 900	0.000 838
72 ← 73	548.307 854	0.000 239
73 ← 74	548.209 389	−0.000 780
74 ← 75		
75 ← 76		
76 ← 77	547.917 813	−0.000 041
77 ← 78	547.819 351	−0.001 076
78 ← 79		
79 ← 80	547.625 101	−0.000 498
80 ← 81	547.527 514	−0.000 686
81 ← 82	547.431 081	0.000 268
82 ← 83	547.332 642	−0.000 798
84 ← 85	547.138 722	−0.000 016
85 ← 86	547.042 305	0.000 892
86 ← 87	546.942 944	−0.001 162
87 ← 88		
90 ← 91		
91 ← 92	546.457 443	−0.000 462
92 ← 93	546.360 057	−0.000 684
96 ← 97	545.972 554	0.000 165
97 ← 98	545.875 537	0.000 153
98 ← 99	545.778 086	−0.000 330
99 ← 100	545.681 688	0.000 203
100 ← 101	545.585 035	0.000 441
101 ← 102	545.488 681	0.000 938
104 ← 105	545.198 152	0.000 701
107 ← 108	544.907 003	−0.000 578
108 ← 109	544.810 702	−0.000 357
109 ← 110	544.715 374	0.000 784
110 ← 111		
111 ← 112		
112 ← 113		

$(\nu_5^1 + 2\nu_7^2)^{1e} \leftarrow (2\nu_7^2)^{2f}$, Q-Zweig

18 ← 18	555.328 960	0.000 355
19 ← 19	555.325 019	0.000 024
20 ← 20	555.320 719	−0.000 479
22 ← 22	555.313 145	0.000 101
23 ← 23	555.308 195	−0.000 493
24 ← 24	555.304 241	0.000 094
25 ← 25	555.299 270	−0.000 151
26 ← 26	555.294 203	−0.000 307
27 ← 27	555.288 770	−0.000 646
28 ← 28	555.284 713	0.000 574
29 ← 29	555.278 182	−0.000 496
30 ← 30	555.273 958	0.000 922
31 ← 31	555.266 606	−0.000 607

32 ← 32		
33 ← 33		
34 ← 34		
35 ← 35		
36 ← 36		
37 ← 37		
38 ← 38		
40 ← 40		
41 ← 41		
42 ← 42		
43 ← 43		
44 ← 44		
45 ← 45		
46 ← 46		
47 ← 47		
48 ← 48		
49 ← 49		
50 ← 50		
51 ← 51		
52 ← 52		
53 ← 53		
54 ← 54		
55 ← 55		
56 ← 56	555.266 606	−0.000 042
57 ← 57	555.262 119	−0.000 570
58 ← 58	555.258 734	0.000 111
59 ← 59	555.254 267	−0.000 183
60 ← 60	555.249 618	−0.000 550
61 ← 61	555.245 793	0.000 017
62 ← 62	555.241 636	0.000 363
63 ← 63	555.236 249	−0.000 408
64 ← 64	555.232 231	0.000 304
65 ← 65	555.227 821	0.000 738
66 ← 66	555.221 788	−0.000 335
67 ← 67	555.216 417	−0.000 629
68 ← 68	555.211 727	−0.000 124
69 ← 69	555.206 751	0.000 214
70 ← 70	555.200 276	−0.000 828
71 ← 71	555.195 629	0.000 078
72 ← 72		
73 ← 73	555.183 380	−0.000 700
74 ← 74	555.178 297	0.000 135
75 ← 75	555.171 325	−0.000 796
76 ← 76	555.166 329	0.000 372
77 ← 77		
78 ← 78	555.153 304	0.000 045
79 ← 79	555.146 294	−0.000 429
80 ← 80	555.140 717	0.000 653
81 ← 81	555.132 640	−0.000 641
82 ← 82	555.126 915	0.000 541
83 ← 83	555.118 730	−0.000 612
84 ← 84	555.113 279	0.001 092
85 ← 85	555.104 472	−0.000 437
86 ← 86	555.098 437	0.000 929
87 ← 87	555.090 437	0.000 453
88 ← 88		
89 ← 89	555.075 317	0.000 747
90 ← 90	555.066 268	−0.000 414

32 ← 32	555.262 119	0.000 910
33 ← 33	555.254 267	−0.000 758
34 ← 34	555.249 618	0.000 957
35 ← 35	555.241 636	−0.000 483
36 ← 36	555.236 249	0.000 849
37 ← 37	555.227 821	−0.000 682
38 ← 38	555.221 788	0.000 359
40 ← 40	555.206 751	−0.000 006
41 ← 41	555.200 276	0.001 116
42 ← 42	555.191 081	−0.000 308
43 ← 43	555.183 380	−0.000 067
44 ← 44	555.175 068	−0.000 265
45 ← 45	555.166 329	−0.000 720
46 ← 46	555.158 399	−0.000 197
47 ← 47	555.150 040	0.000 066
48 ← 48	555.140 717	−0.000 467
49 ← 49	555.132 640	0.000 411
50 ← 50	555.123 017	−0.000 091
51 ← 51	555.113 279	−0.000 543
52 ← 52	555.104 472	0.000 099
53 ← 53	555.094 809	0.000 047
54 ← 54	555.085 135	0.000 145
55 ← 55	555.075 317	0.000 260
56 ← 56		
57 ← 57	555.055 079	0.000 363
58 ← 58	555.043 915	−0.000 395
59 ← 59	555.033 892	0.000 143
60 ← 60	555.023 060	0.000 027
61 ← 61	555.012 879	0.000 714
62 ← 62	555.000 357	−0.000 787
63 ← 63	554.990 427	0.000 454
64 ← 64	554.978 028	−0.000 625
65 ← 65	554.967 096	−0.000 089
66 ← 66	554.955 237	−0.000 333
67 ← 67	554.943 619	−0.000 190
68 ← 68	554.932 020	0.000 115
69 ← 69	554.919 785	−0.000 073
70 ← 70	554.907 025	−0.000 644
71 ← 71	554.895 534	0.000 193
72 ← 72	554.883 898	0.001 024
73 ← 73	554.870 842	0.000 572
74 ← 74	554.857 154	−0.000 377
75 ← 75		
76 ← 76	554.831 699	0.000 048
77 ← 77	554.818 700	0.000 186
78 ← 78	554.806 193	0.000 947
79 ← 79	554.790 857	−0.000 994
80 ← 80		
81 ← 81	554.765 277	0.000 595
82 ← 82	554.751 182	0.000 270
83 ← 83	554.736 738	−0.000 282
84 ← 84		
85 ← 85	554.709 177	0.000 301
86 ← 86	554.694 522	−0.000 106
87 ← 87	554.681 105	0.000 841
88 ← 88	554.666 168	0.000 381
89 ← 89	554.651 459	0.000 261
90 ← 90	554.637 635	0.001 137

91 ← 91		
92 ← 92		
94 ← 94		
95 ← 95		
96 ← 96	555.017 222	0.000 359
97 ← 97	555.008 414	0.000 260
98 ← 98	554.998 744	−0.000 589
99 ← 99	554.990 427	0.000 027
100 ← 100	554.980 435	−0.000 923
101 ← 101	554.971 799	−0.000 408
102 ← 102	554.962 658	−0.000 291
103 ← 103		
105 ← 105		
106 ← 106	554.924 383	−0.000 495
107 ← 107	554.914 709	−0.000 401
108 ← 108		
109 ← 109	554.895 534	0.000 250
110 ← 110		
111 ← 111	554.875 296	0.000 210
112 ← 112	554.864 965	0.000 113
113 ← 113		
114 ← 114		
116 ← 116		
117 ← 117	554.812 821	0.000 405
118 ← 118	554.801 850	0.000 159
119 ← 119	554.790 857	−0.000 034
120 ← 120	554.780 070	0.000 051
121 ← 121	554.769 211	0.000 135
122 ← 122	554.757 336	−0.000 730
123 ← 123	554.747 135	0.000 145
124 ← 124	554.736 738	0.000 887
125 ← 125	554.725 617	0.000 966
$(\nu_5^1+2\nu_7^2)^{1e} \leftarrow (2\nu_7^2)^{2e}$, R-Zweig		
7 ← 6	556.021 641	−0.000 682
8 ← 7	556.116 575	0.000 574
9 ← 8	556.210 609	0.001 124
10 ← 9	556.303 011	0.000 234
11 ← 10		
12 ← 11	556.488 787	0.000 008
14 ← 13	556.673 037	−0.000 968
15 ← 14	556.765 973	−0.000 352
16 ← 15	556.858 147	−0.000 302
17 ← 16	556.950 217	−0.000 160
18 ← 17	557.042 128	0.000 020
19 ← 18	557.133 701	0.000 060
20 ← 19	557.225 349	0.000 374
21 ← 20	557.315 893	−0.000 217
22 ← 21		
23 ← 22	557.497 783	0.000 004
24 ← 23	557.588 119	−0.000 192
25 ← 24	557.678 445	−0.000 195
26 ← 25	557.768 843	0.000 077
27 ← 26	557.858 705	0.000 018
28 ← 27	557.947 893	−0.000 509
29 ← 28	558.037 815	−0.000 096
30 ← 29	558.126 274	−0.000 938
31 ← 30	558.217 198	0.000 894
32 ← 31	558.305 646	0.000 461

91 ← 91	554.621 197	−0.000 493
92 ← 92	554.606 307	−0.000 468
94 ← 94	554.575 705	−0.000 927
95 ← 95	554.561 985	0.000 578
96 ← 96	554.546 939	0.000 857
97 ← 97	554.531 326	0.000 666
98 ← 98	554.514 794	−0.000 347
99 ← 99		
100 ← 100	554.483 811	−0.000 011
101 ← 101		
102 ← 102		
103 ← 103	554.435 633	−0.000 537
105 ← 105	554.403 614	−0.000 360
106 ← 106	554.387 572	−0.000 182
107 ← 107	554.371 135	−0.000 320
108 ← 108	554.354 331	−0.000 747
109 ← 109	554.339 387	0.000 760
110 ← 110	554.321 459	−0.000 643
111 ← 111	554.304 759	−0.000 747
112 ← 112	554.287 811	−0.001 031
113 ← 113	554.271 404	−0.000 706
114 ← 114	554.254 382	−0.000 931
116 ← 116	554.221 251	−0.000 283
117 ← 117	554.205 320	0.000 765
118 ← 118		
119 ← 119		
120 ← 120		
121 ← 121		
122 ← 122		
123 ← 123		
124 ← 124		
125 ← 125		
$(\nu_5^1+2\nu_7^2)^{1f} \leftarrow (2\nu_7^2)^{2f}$, R-Zweig		
7 ← 6	556.026 264	−0.000 059
8 ← 7	556.121 574	0.000 428
9 ← 8	556.216 521	0.000 602
10 ← 9		
11 ← 10	556.405 288	−0.000 035
12 ← 11	556.499 958	0.000 006
14 ← 13	556.689 095	0.000 026
15 ← 14		
16 ← 15	556.877 248	−0.000 748
17 ← 16	556.972 862	0.000 473
18 ← 17		
19 ← 18	557.160 208	−0.000 827
20 ← 19	557.255 340	0.000 051
21 ← 20	557.349 668	0.000 170
22 ← 21	557.443 752	0.000 091
23 ← 22	557.538 372	0.000 594
24 ← 23	557.631 853	0.000 001
25 ← 24	557.726 597	0.000 716
26 ← 25	557.819 664	−0.000 202
27 ← 26	557.913 427	−0.000 381
28 ← 27	558.006 905	−0.000 801
29 ← 28	558.101 315	−0.000 248
30 ← 29	558.195 185	−0.000 192
31 ← 30	558.289 321	0.000 172
32 ← 31	558.382 952	0.000 071

33 ← 32	558.393 702	−0.000 154
34 ← 33	558.482 278	−0.000 037
35 ← 34	558.570 491	−0.000 068
36 ← 35	558.658 848	0.000 259
37 ← 36	558.746 718	0.000 315
38 ← 37	558.834 235	0.000 235
39 ← 38	558.921 741	0.000 363
40 ← 39	559.008 281	−0.000 255
41 ← 40	559.095 488	0.000 016
42 ← 41		
43 ← 42	559.268 722	0.000 046
44 ← 43	559.355 728	0.000 788
45 ← 44	559.441 071	0.000 093
46 ← 45		
47 ← 46	559.613 434	0.001 068
48 ← 47		
49 ← 48	559.783 681	0.000 850
50 ← 49	559.867 430	−0.000 283
51 ← 50	559.952 511	0.000 151
52 ← 51	560.036 291	−0.000 480
53 ← 52	560.120 890	−0.000 053
54 ← 53	560.205 707	0.000 830
55 ← 54		
56 ← 55	560.372 333	0.000 314
57 ← 56	560.455 691	0.000 464
58 ← 57	560.538 216	0.000 027
59 ← 58	560.621 482	0.000 576
60 ← 59	560.703 343	−0.000 033
61 ← 60	560.785 695	0.000 098
62 ← 61	560.867 494	−0.000 075
63 ← 62	560.950 193	0.000 902
64 ← 63	561.030 768	0.000 007
65 ← 64	561.111 934	−0.000 045
66 ← 65	561.193 075	0.000 131
67 ← 66	561.272 696	−0.000 958
68 ← 67	561.354 283	0.000 174
69 ← 68		
70 ← 69	561.513 492	−0.000 758
71 ← 70	561.593 407	−0.000 529
72 ← 71	561.673 651	0.000 288
73 ← 72	561.752 406	−0.000 126
74 ← 73	561.832 205	0.000 763
75 ← 74		
76 ← 75	561.989 075	0.000 590
77 ← 76	562.065 504	−0.001 113
78 ← 77	562.144 104	−0.000 385
79 ← 78	562.222 250	0.000 149
80 ← 79	562.299 310	−0.000 143
81 ← 80	562.376 912	0.000 366
82 ← 81		
83 ← 82	562.529 717	−0.000 236
84 ← 83	562.606 285	0.000 016
85 ← 84	562.681 909	−0.000 416
86 ← 85		
87 ← 86		
88 ← 87	562.909 934	0.000 983
89 ← 88	562.984 209	0.000 229
90 ← 89	563.059 792	0.001 037

33 ← 32	558.476 535	−0.000 037
34 ← 33	558.570 491	0.000 268
35 ← 34	558.663 837	0.000 002
36 ← 35	558.757 265	−0.000 143
37 ← 36	558.851 398	0.000 455
38 ← 37	558.944 655	0.000 215
39 ← 38	559.038 462	0.000 562
40 ← 39	559.131 482	0.000 158
41 ← 40	559.224 428	−0.000 284
42 ← 41	559.317 925	−0.000 141
43 ← 42	559.411 184	−0.000 201
44 ← 43	559.505 450	0.000 779
45 ← 44		
46 ← 45	559.691 084	−0.000 060
47 ← 46	559.783 681	−0.000 653
48 ← 47	559.877 807	0.000 314
49 ← 48	559.969 912	−0.000 711
50 ← 49	560.063 594	−0.000 129
51 ← 50		
52 ← 51	560.249 620	−0.000 222
53 ← 52	560.343 488	0.000 627
54 ← 53	560.435 959	0.000 104
55 ← 54	560.528 597	−0.000 227
56 ← 55	560.621 482	−0.000 288
57 ← 56	560.714 673	−0.000 020
58 ← 57	560.807 688	0.000 094
59 ← 58	560.900 675	0.000 200
60 ← 59	560.993 206	−0.000 130
61 ← 60	561.085 007	−0.001 171
62 ← 61	561.179 210	0.000 208
63 ← 62	561.272 696	0.000 887
64 ← 63	561.364 574	−0.000 027
65 ← 64	561.457 566	0.000 188
66 ← 65	561.550 325	0.000 184
67 ← 66	561.642 528	−0.000 364
68 ← 67	561.736 087	0.000 456
69 ← 68	561.828 055	−0.000 305
70 ← 69	561.920 956	−0.000 123
71 ← 70	562.013 055	−0.000 736
72 ← 71	562.106 497	0.000 002
73 ← 72	562.198 842	−0.000 352
74 ← 73	562.292 007	0.000 119
75 ← 74	562.384 860	0.000 282
76 ← 75	562.477 018	−0.000 248
77 ← 76	562.570 313	0.000 360
78 ← 77	562.662 446	−0.000 194
79 ← 78		
80 ← 79	562.847 249	−0.000 770
81 ← 80	562.940 843	0.000 129
82 ← 81	563.033 405	−0.000 008
83 ← 82	563.126 149	0.000 030
84 ← 83	563.218 041	−0.000 792
85 ← 84	563.311 657	0.000 101
86 ← 85	563.404 393	0.000 104
87 ← 86	563.497 419	0.000 386
88 ← 87	563.589 280	−0.000 510
89 ← 88		
90 ← 89	563.776 335	0.000 986

$91 \leftarrow 90$	563.133 182	−0.000 094
$97 \leftarrow 96$		
$99 \leftarrow 98$	563.719 290	−0.001 155
$100 \leftarrow 99$	563.792 778	0.000 040
$101 \leftarrow 100$	563.864 360	−0.000 430
$103 \leftarrow 102$	564.009 095	0.000 911
$105 \leftarrow 104$		
$106 \leftarrow 105$		
$107 \leftarrow 106$		
$108 \leftarrow 107$		
$109 \leftarrow 108$	564.432 873	0.000 061
$110 \leftarrow 109$		
$111 \leftarrow 110$	564.571 861	−0.000 700
$112 \leftarrow 111$	564.643 050	0.000 941
$114 \leftarrow 113$	564.781 178	0.000 611
$115 \leftarrow 114$	564.850 192	0.000 710
$116 \leftarrow 115$	564.918 167	−0.000 023
$119 \leftarrow 118$		
$120 \leftarrow 119$		
$122 \leftarrow 121$		
$124 \leftarrow 123$		
$125 \leftarrow 124$		
$127 \leftarrow 126$		

$(\nu_5^1 + 2\nu_7^2)^{3e} \leftarrow (2\nu_7^2)^{2e}$, P-Zweig

$11 \leftarrow 12$	544.651 647	0.000 845
$12 \leftarrow 13$	544.556 465	−0.000 054
$13 \leftarrow 14$	544.463 159	0.000 849
$14 \leftarrow 15$	544.367 160	−0.001 015
$16 \leftarrow 17$	544.180 715	0.000 591
$17 \leftarrow 18$	544.086 513	0.000 306
$18 \leftarrow 19$	543.993 096	0.000 735
$19 \leftarrow 20$	543.898 860	0.000 275
$20 \leftarrow 21$	543.805 126	0.000 248
$21 \leftarrow 22$	543.711 292	0.000 052
$22 \leftarrow 23$	543.618 754	0.001 086
$23 \leftarrow 24$	543.525 200	0.001 036
$24 \leftarrow 25$	543.431 447	0.000 723
$25 \leftarrow 26$	543.337 971	0.000 623
$26 \leftarrow 27$	543.245 045	0.001 009
$27 \leftarrow 28$		
$28 \leftarrow 29$		
$29 \leftarrow 30$	542.965 532	0.001 068
$30 \leftarrow 31$	542.870 774	−0.000 617
$31 \leftarrow 32$	542.778 689	0.000 314
$32 \leftarrow 33$	542.684 654	−0.000 760
$33 \leftarrow 34$	542.591 512	−0.000 995
$34 \leftarrow 35$	542.499 770	0.000 118
$35 \leftarrow 36$	542.405 692	−0.001 157
$36 \leftarrow 37$	542.314 253	0.000 158
$37 \leftarrow 38$		
$38 \leftarrow 39$	542.128 515	−0.000 214
$39 \leftarrow 40$	542.036 067	−0.000 047
$40 \leftarrow 41$	541.943 870	0.000 327
$41 \leftarrow 42$	541.850 863	−0.000 150
$42 \leftarrow 43$	541.758 893	0.000 369
$43 \leftarrow 44$	541.665 997	−0.000 076
$44 \leftarrow 45$	541.573 898	0.000 239
$45 \leftarrow 46$	541.481 512	0.000 232

$91 \leftarrow 90$		
$97 \leftarrow 96$	564.425 993	0.000 586
$99 \leftarrow 98$	564.611 715	0.000 359
$100 \leftarrow 99$	564.704 730	0.000 356
$101 \leftarrow 100$	564.797 625	0.000 202
$103 \leftarrow 102$	564.983 229	−0.000 391
$105 \leftarrow 104$	565.170 606	0.000 649
$106 \leftarrow 105$	565.262 904	−0.000 278
$107 \leftarrow 106$	565.356 653	0.000 207
$108 \leftarrow 107$	565.449 177	−0.000 575
$109 \leftarrow 108$	565.543 069	−0.000 031
$110 \leftarrow 109$	565.637 096	0.000 603
$111 \leftarrow 110$	565.729 574	−0.000 356
$112 \leftarrow 111$		
$114 \leftarrow 113$		
$115 \leftarrow 114$		
$116 \leftarrow 115$		
$119 \leftarrow 118$	566.479 228	−0.000 022
$120 \leftarrow 119$	566.572 512	−0.000 653
$122 \leftarrow 121$	566.760 701	−0.000 476
$124 \leftarrow 123$	566.949 409	−0.000 034
$125 \leftarrow 124$	567.043 408	−0.000 268
$127 \leftarrow 126$	567.232 521	0.000 175

$(\nu_5^1 + 2\nu_7^2)^{3f} \leftarrow (2\nu_7^2)^{2f}$, P-Zweig

$11 \leftarrow 12$	544.651 647	0.000 784
$12 \leftarrow 13$	544.556 465	−0.000 137
$13 \leftarrow 14$	544.463 159	0.000 739
$14 \leftarrow 15$	544.367 160	−0.001 159
$16 \leftarrow 17$	544.180 715	0.000 356
$17 \leftarrow 18$	544.086 513	0.000 012
$18 \leftarrow 19$	543.993 096	0.000 372
$19 \leftarrow 20$	543.898 860	−0.000 168
$20 \leftarrow 21$	543.805 126	−0.000 288
$21 \leftarrow 22$	543.711 292	−0.000 590
$22 \leftarrow 23$	543.618 754	0.000 321
$23 \leftarrow 24$	543.525 200	0.000 133
$24 \leftarrow 25$	543.431 447	−0.000 336
$25 \leftarrow 26$	543.337 971	−0.000 612
$26 \leftarrow 27$	543.245 045	−0.000 422
$27 \leftarrow 28$	543.151 956	−0.000 479
$28 \leftarrow 29$	543.058 856	−0.000 631
$29 \leftarrow 30$	542.967 722	0.001 098
$30 \leftarrow 31$	542.874 802	0.000 956
$31 \leftarrow 32$	542.781 526	0.000 372
$32 \leftarrow 33$	542.688 685	0.000 137
$33 \leftarrow 34$	542.596 309	0.000 281
$34 \leftarrow 35$	542.503 329	−0.000 266
$35 \leftarrow 36$	542.410 955	−0.000 294
$36 \leftarrow 37$	542.318 895	−0.000 096
$37 \leftarrow 38$	542.227 129	0.000 308
$38 \leftarrow 39$		
$39 \leftarrow 40$	542.042 325	−0.000 421
$40 \leftarrow 41$	541.951 355	0.000 513
$41 \leftarrow 42$		
$42 \leftarrow 43$	541.767 484	0.000 180
$43 \leftarrow 44$	541.676 311	0.000 640
$44 \leftarrow 45$	541.584 487	0.000 358
$45 \leftarrow 46$	541.493 198	0.000 520

46 ← 47	541.389 174	0.000 239
47 ← 48	541.297 273	0.000 651
48 ← 49	541.204 637	0.000 298
49 ← 50	541.111 983	−0.000 102
50 ← 51	541.019 715	−0.000 143
51 ← 52	540.927 533	−0.000 124
52 ← 53	540.835 264	−0.000 215
53 ← 54	540.742 982	−0.000 342
54 ← 55	540.651 261	0.000 071
55 ← 56	540.559 045	−0.000 029
56 ← 57	540.467 262	0.000 286
57 ← 58	540.374 712	−0.000 183
58 ← 59	540.282 661	−0.000 167
59 ← 60	540.190 956	0.000 182
60 ← 61	540.098 230	−0.000 503
61 ← 62	540.006 815	0.000 113
62 ← 63	539.914 903	0.000 223
63 ← 64	539.823 730	0.001 063
64 ← 65		
65 ← 66	539.638 198	−0.000 461
66 ← 67	539.546 617	−0.000 046
67 ← 68	539.454 762	0.000 092
68 ← 69	539.362 743	0.000 063
69 ← 70	539.270 805	0.000 112
70 ← 71	539.178 732	0.000 026
71 ← 72	539.086 375	−0.000 345
72 ← 73	538.994 944	0.000 211
73 ← 74	538.902 401	−0.000 345
74 ← 75	538.811 447	0.000 690
75 ← 76	538.718 538	−0.000 229
76 ← 77		
77 ← 78	538.534 407	−0.000 373
78 ← 79	538.441 991	−0.000 791
79 ← 80	538.351 798	0.001 015
80 ← 81	538.258 017	−0.000 764
81 ← 82	538.167 885	0.001 108
82 ← 83	538.074 580	−0.000 190
83 ← 84	537.982 842	0.000 080
84 ← 85	537.891 069	0.000 317
85 ← 86	537.798 837	0.000 096
86 ← 87	537.706 859	0.000 129
87 ← 88	537.615 513	0.000 794
88 ← 89	537.522 731	0.000 021
89 ← 90		
90 ← 91		
91 ← 92		
92 ← 93		
93 ← 94	537.063 112	0.000 405
94 ← 95	536.970 041	−0.000 683
95 ← 96	536.878 409	−0.000 340
96 ← 97	536.786 604	−0.000 180
97 ← 98	536.694 006	−0.000 825
98 ← 99	536.602 575	−0.000 315
99 ← 100	536.510 774	−0.000 190
100 ← 101	536.418 391	−0.000 663
101 ← 102	536.326 614	−0.000 549
102 ← 103	536.235 809	0.000 518
103 ← 104	536.143 068	−0.000 373

46 ← 47	541.401 085	−0.000 235
47 ← 48	541.310 002	−0.000 052
48 ← 49	541.218 551	−0.000 330
49 ← 50	541.128 134	0.000 333
50 ← 51	541.036 102	−0.000 713
51 ← 52	540.946 669	0.000 746
52 ← 53	540.854 911	−0.000 215
53 ← 54		
54 ← 55	540.673 228	−0.000 590
55 ← 56	540.583 606	0.000 298
56 ← 57	540.493 576	0.000 682
57 ← 58	540.402 874	0.000 297
58 ← 59	540.311 941	−0.000 417
59 ← 60	540.221 860	−0.000 377
60 ← 61	540.132 137	−0.000 077
61 ← 62	540.042 192	−0.000 098
62 ← 63	539.952 887	0.000 423
63 ← 64	539.862 157	−0.000 582
64 ← 65	539.772 931	−0.000 182
65 ← 66	539.683 144	−0.000 444
66 ← 67	539.594 453	0.000 289
67 ← 68	539.504 638	−0.000 202
68 ← 69	539.415 665	0.000 046
69 ← 70	539.326 028	−0.000 471
70 ← 71	539.237 589	0.000 107
71 ← 72	539.148 447	−0.000 120
72 ← 73	539.060 280	0.000 525
73 ← 74	538.971 276	0.000 229
74 ← 75	538.881 927	−0.000 515
75 ← 76		
76 ← 77	538.706 222	0.000 678
77 ← 78	538.616 936	−0.000 316
78 ← 79	538.530 180	0.001 115
79 ← 80	538.441 991	0.001 008
80 ← 81	538.351 799	−0.001 207
81 ← 82	538.264 007	−0.001 128
82 ← 83	538.177 287	−0.000 083
83 ← 84		
84 ← 85	538.003 086	0.000 929
85 ← 86	537.915 595	0.000 884
86 ← 87		
87 ← 88		
88 ← 89		
89 ← 90	537.565 819	−0.000 171
90 ← 91	537.478 260	−0.000 818
91 ← 92	537.392 030	−0.000 242
92 ← 93	537.305 042	−0.000 531
93 ← 94	537.218 812	−0.000 170
94 ← 95	537.132 372	−0.000 126
95 ← 96	537.046 070	−0.000 051
96 ← 97	536.960 817	0.000 965
97 ← 98		
98 ← 99	536.786 604	−0.001 030
99 ← 100	536.701 243	−0.000 443
100 ← 101	536.616 844	0.000 999
101 ← 102	536.529 008	−0.001 102
102 ← 103		
103 ← 104	536.358 998	0.000 036

$104 \leftarrow 105$	536.051 575	−0.000 039
$105 \leftarrow 106$		
$106 \leftarrow 107$		
$107 \leftarrow 108$		
$108 \leftarrow 109$	535.684 714	0.000 131
$109 \leftarrow 110$	535.592 453	−0.000 452
$110 \leftarrow 111$	535.500 792	−0.000 470
$111 \leftarrow 112$	535.409 383	−0.000 275
$112 \leftarrow 113$	535.318 781	0.000 687
$113 \leftarrow 114$	535.227 391	0.000 818
$114 \leftarrow 115$	535.135 453	0.000 356
$115 \leftarrow 116$	535.043 356	−0.000 312
$116 \leftarrow 117$	534.953 052	0.000 763
$117 \leftarrow 118$	534.859 902	−0.001 059
$118 \leftarrow 119$	534.768 840	−0.000 848
$119 \leftarrow 120$	534.678 558	0.000 087
$120 \leftarrow 121$	534.586 501	−0.000 813
$121 \leftarrow 122$	534.495 405	−0.000 812
$122 \leftarrow 123$	534.405 081	−0.000 103
$123 \leftarrow 124$	534.314 725	0.000 508
$124 \leftarrow 125$	534.222 839	−0.000 479

$(\nu_5^1 + 2\nu_7^2)^{3f} \leftarrow (2\nu_7^2)^{2e}$, Q-Zweig

$35 \leftarrow 35$		
$36 \leftarrow 36$		
$38 \leftarrow 38$		
$39 \leftarrow 39$		
$40 \leftarrow 40$		
$42 \leftarrow 42$		
$43 \leftarrow 43$		
$44 \leftarrow 44$		
$45 \leftarrow 45$		
$46 \leftarrow 46$		
$47 \leftarrow 47$		
$48 \leftarrow 48$		
$49 \leftarrow 49$		
$50 \leftarrow 50$		
$51 \leftarrow 51$		
$52 \leftarrow 52$		
$53 \leftarrow 53$		
$54 \leftarrow 54$		
$55 \leftarrow 55$		
$56 \leftarrow 56$		
$57 \leftarrow 57$		
$58 \leftarrow 58$		
$59 \leftarrow 59$		
$60 \leftarrow 60$		
$61 \leftarrow 61$		
$62 \leftarrow 62$		
$63 \leftarrow 63$		
$64 \leftarrow 64$		
$65 \leftarrow 65$		
$66 \leftarrow 66$		
$67 \leftarrow 67$		
$69 \leftarrow 69$		
$70 \leftarrow 70$		
$71 \leftarrow 71$		
$72 \leftarrow 72$		
$73 \leftarrow 73$		

$104 \leftarrow 105$	536.273 904	0.000 357
$105 \leftarrow 106$	536.189 114	0.000 875
$106 \leftarrow 107$	536.104 098	0.001 061
$107 \leftarrow 108$	536.017 945	0.000 005
$108 \leftarrow 109$	535.933 573	0.000 624
$109 \leftarrow 110$	535.848 787	0.000 723
$110 \leftarrow 111$	535.763 137	−0.000 146
$111 \leftarrow 112$		
$112 \leftarrow 113$		
$113 \leftarrow 114$		
$114 \leftarrow 115$		
$115 \leftarrow 116$		
$116 \leftarrow 117$		
$117 \leftarrow 118$		
$118 \leftarrow 119$		
$119 \leftarrow 120$		
$120 \leftarrow 121$		
$121 \leftarrow 122$		
$122 \leftarrow 123$		
$123 \leftarrow 124$		
$124 \leftarrow 125$		

$(\nu_5^1 + 2\nu_7^2)^{3e} \leftarrow (2\nu_7^2)^{2f}$, Q-Zweig

$35 \leftarrow 35$	545.838 776	0.000 313
$36 \leftarrow 36$	545.840 771	−0.000 617
$38 \leftarrow 38$	545.848 627	0.001 127
$39 \leftarrow 39$	545.850 676	−0.000 012
$40 \leftarrow 40$	545.854 162	0.000 197
$42 \leftarrow 42$	545.860 624	−0.000 164
$43 \leftarrow 43$	545.863 650	−0.000 685
$44 \leftarrow 44$	545.868 044	0.000 071
$45 \leftarrow 45$	545.871 858	0.000 155
$46 \leftarrow 46$	545.875 537	0.000 012
$47 \leftarrow 47$	545.879 231	−0.000 210
$48 \leftarrow 48$	545.883 808	0.000 359
$49 \leftarrow 49$	545.887 929	0.000 376
$50 \leftarrow 50$	545.891 787	0.000 036
$51 \leftarrow 51$	545.895 883	−0.000 162
$52 \leftarrow 52$	545.900 241	−0.000 195
$53 \leftarrow 53$	545.905 338	0.000 414
$54 \leftarrow 54$	545.908 954	−0.000 557
$55 \leftarrow 55$	545.913 716	−0.000 480
$56 \leftarrow 56$	545.918 575	−0.000 406
$57 \leftarrow 57$	545.923 997	0.000 131
$58 \leftarrow 58$	545.928 220	−0.000 633
$59 \leftarrow 59$	545.934 066	0.000 124
$60 \leftarrow 60$	545.938 928	−0.000 207
$61 \leftarrow 61$	545.944 310	−0.000 121
$62 \leftarrow 62$	545.949 503	−0.000 330
$63 \leftarrow 63$	545.955 363	0.000 023
$64 \leftarrow 64$	545.960 774	−0.000 181
$65 \leftarrow 65$	545.967 065	0.000 388
$66 \leftarrow 66$	545.972 554	0.000 045
$67 \leftarrow 67$	545.979 042	0.000 592
$69 \leftarrow 69$	545.990 237	−0.000 431
$70 \leftarrow 70$	545.996 960	0.000 014
$71 \leftarrow 71$	546.003 419	0.000 081
$72 \leftarrow 72$	546.009 652	−0.000 194
$73 \leftarrow 73$	546.016 340	−0.000 131

74 ←	74		
75 ←	75		
76 ←	76		
77 ←	77		
78 ←	78		
79 ←	79		
80 ←	80		
81 ←	81		
83 ←	83		
84 ←	84		
85 ←	85		
86 ←	86		
87 ←	87		
89 ←	89		
90 ←	90		
91 ←	91		
92 ←	92		
94 ←	94		
95 ←	95		
97 ←	97		
98 ←	98		
99 ←	99		
100 ←	100		
101 ←	101		
102 ←	102		
104 ←	104		
105 ←	105		

$(\nu_5^1 + 2\nu_7^2)^{3e} \leftarrow (2\nu_7^2)^{2e}$, R-Zweig

6 ←	5	546.360 057	−0.001 038
7 ←	6	546.457 443	0.000 591
8 ←	7	546.552 705	0.000 018
9 ←	8	546.648 741	0.000 143
10 ←	9	546.745 211	0.000 626
11 ←	10	546.840 803	0.000 154
12 ←	11	546.936 867	0.000 080
13 ←	12	547.032 514	−0.000 487
14 ←	13	547.129 633	0.000 345
15 ←	14	547.224 691	−0.000 959
16 ←	15	547.321 748	−0.000 336
17 ←	16	547.419 318	0.000 728
18 ←	17	547.515 899	0.000 732
19 ←	18	547.611 903	0.000 088
20 ←	19	547.708 268	−0.000 264
21 ←	20	547.804 364	−0.000 954
22 ←	21	547.902 291	0.000 119
23 ←	22	547.999 498	0.000 406
24 ←	23	548.096 189	0.000 111
25 ←	24	548.193 185	0.000 057
26 ←	25	548.290 806	0.000 564
27 ←	26	548.388 228	0.000 811
28 ←	27	548.485 375	0.000 721
29 ←	28	548.582 876	0.000 926
30 ←	29	548.679 524	0.000 220
31 ←	30	548.776 379	−0.000 336
32 ←	31	548.873 957	−0.000 225
33 ←	32	548.972 234	0.000 531
34 ←	33	549.069 391	0.000 114
35 ←	34	549.166 974	0.000 071

74 ←	74	546.023 015	−0.000 199
75 ←	75	546.030 624	0.000 549
76 ←	76	546.036 961	−0.000 096
77 ←	77	546.044 390	0.000 229
78 ←	78	546.052 222	0.000 835
79 ←	79	546.059 598	0.000 860
80 ←	80	546.066 391	0.000 177
81 ←	81	546.074 277	0.000 461
83 ←	83	546.089 673	0.000 265
84 ←	84	546.097 340	−0.000 059
85 ←	85	546.105 912	0.000 390
86 ←	86	546.113 974	0.000 194
87 ←	87	546.122 901	0.000 729
89 ←	89	546.139 571	0.000 203
90 ←	90	546.147 844	−0.000 331
91 ←	91	546.156 316	−0.000 808
92 ←	92	546.165 243	−0.000 971
94 ←	94	546.185 302	0.000 471
95 ←	95	546.193 811	−0.000 548
97 ←	97	546.212 756	−0.001 109
98 ←	98	546.223 411	−0.000 435
99 ←	99	546.234 140	0.000 159
100 ←	100	546.243 612	−0.000 659
101 ←	101	546.255 175	0.000 456
102 ←	102	546.265 670	0.000 345
104 ←	104	546.287 409	0.000 387
105 ←	105	546.299 152	0.001 036

$(\nu_5^1 + 2\nu_7^2)^{3f} \leftarrow (2\nu_7^2)^{2f}$, R-Zweig

6 ←	5	546.360 057	−0.001 040
7 ←	6	546.457 443	0.000 586
8 ←	7	546.552 705	0.000 011
9 ←	8	546.648 741	0.000 131
10 ←	9	546.745 211	0.000 606
11 ←	10	546.840 803	0.000 124
12 ←	11	546.936 867	0.000 036
13 ←	12	547.032 514	−0.000 548
14 ←	13	547.129 633	0.000 262
15 ←	14	547.224 691	−0.001 069
16 ←	15	547.321 748	−0.000 480
17 ←	16	547.419 318	0.000 543
18 ←	17	547.515 899	0.000 497
19 ←	18	547.611 903	−0.000 205
20 ←	19	547.708 268	−0.000 626
21 ←	20		
22 ←	21	547.902 291	−0.000 416
23 ←	22	547.999 498	−0.000 236
24 ←	23	548.096 189	−0.000 652
25 ←	24	548.193 185	−0.000 844
26 ←	25	548.290 806	−0.000 492
27 ←	26	548.388 228	−0.000 420
28 ←	27	548.485 375	−0.000 705
29 ←	28	548.582 876	−0.000 718
30 ←	29		
31 ←	30		
32 ←	31		
33 ←	32		
34 ←	33		
35 ←	34	549.170 909	0.000 498

36 ← 35	549.264 305	−0.000 272
37 ← 36	549.362 174	−0.000 127
38 ← 37	549.460 043	−0.000 028
39 ← 38	549.557 598	−0.000 288
40 ← 39	549.655 278	−0.000 466
41 ← 40	549.753 474	−0.000 170
42 ← 41	549.851 833	0.000 248
43 ← 42		
44 ← 43		
45 ← 44	550.145 087	−0.000 545
46 ← 45	550.243 673	−0.000 043
47 ← 46	550.342 148	0.000 315
48 ← 47		
49 ← 48		
50 ← 49	550.635 798	−0.000 559
51 ← 50	550.734 375	−0.000 209
52 ← 51	550.832 365	−0.000 469
53 ← 52	550.931 219	0.000 113
54 ← 53	551.028 197	−0.001 201
55 ← 54	551.128 453	0.000 745
56 ← 55	551.225 490	−0.000 544
57 ← 56	551.323 419	−0.000 957
58 ← 57	551.422 453	−0.000 279
59 ← 58	551.521 330	0.000 231
60 ← 59	551.619 505	0.000 028
61 ← 60	551.718 150	0.000 287
62 ← 61	551.815 957	−0.000 301
63 ← 62	551.914 162	−0.000 496
64 ← 63	552.013 730	0.000 667
65 ← 64	552.111 559	0.000 087
66 ← 65	552.210 376	0.000 493
67 ← 66	552.308 193	−0.000 102
68 ← 67	552.406 469	−0.000 238
69 ← 68	552.504 694	−0.000 424
70 ← 69	552.603 434	−0.000 093
71 ← 70	552.702 337	0.000 404
72 ← 71	552.800 157	−0.000 178
73 ← 72	552.899 000	0.000 267
74 ← 73	552.997 897	0.000 772
75 ← 74	553.095 301	−0.000 210
76 ← 75	553.194 021	0.000 130
77 ← 76	553.291 893	−0.000 371
78 ← 77	553.390 836	0.000 206
79 ← 78	553.488 360	−0.000 628
80 ← 79	553.587 209	−0.000 129
81 ← 80	553.685 786	0.000 106
82 ← 81		
83 ← 82		
84 ← 83	553.980 602	−0.000 058
85 ← 84	554.078 952	−0.000 020
86 ← 85	554.177 265	−0.000 011
87 ← 86		
89 ← 88		
90 ← 89		
91 ← 90		
93 ← 92	554.864 965	−0.000 289
94 ← 93	554.962 658	−0.000 866
95 ← 94	555.061 982	0.000 188

36 ← 35	549.268 547	0.000 042
37 ← 36	549.366 797	0.000 113
38 ← 37	549.465 481	0.000 534
39 ← 38	549.562 452	−0.000 843
40 ← 39	549.661 683	−0.000 046
41 ← 40	549.760 317	0.000 070
42 ← 41	549.858 658	−0.000 194
43 ← 42	549.957 532	−0.000 011
44 ← 43	550.056 353	0.000 033
45 ← 44	550.155 054	−0.000 130
46 ← 45	550.254 418	0.000 283
47 ← 46	550.352 975	−0.000 199
48 ← 47	550.451 586	−0.000 715
49 ← 48	550.551 219	−0.000 298
50 ← 49	550.650 810	−0.000 010
51 ← 50	550.749 430	−0.000 783
52 ← 51	550.850 501	0.000 805
53 ← 52	550.949 870	0.000 602
54 ← 53	551.049 421	0.000 491
55 ← 54		
56 ← 55	551.248 200	−0.000 326
57 ← 56	551.348 766	0.000 306
58 ← 57	551.447 784	−0.000 702
59 ← 58	551.549 780	0.001 176
60 ← 59	551.649 691	0.000 877
61 ← 60	551.749 209	0.000 093
62 ← 61	551.848 825	−0.000 686
63 ← 62		
64 ← 63	552.051 131	0.000 549
65 ← 64	552.151 558	0.000 301
66 ← 65	552.251 678	−0.000 349
67 ← 66	552.352 258	−0.000 633
68 ← 67	552.453 856	0.000 007
69 ← 68	552.554 577	−0.000 326
70 ← 69	552.656 260	0.000 209
71 ← 70	552.757 315	0.000 019
72 ← 71	552.858 935	0.000 300
73 ← 72	552.959 974	−0.000 097
74 ← 73		
75 ← 74	553.164 121	0.000 890
76 ← 75	553.264 420	−0.000 536
77 ← 76	553.367 335	0.000 557
78 ← 77	553.468 434	−0.000 262
79 ← 78	553.571 140	0.000 428
80 ← 79	553.672 160	−0.000 665
81 ← 80		
82 ← 81	553.877 414	0.000 071
83 ← 82	553.980 602	0.000 853
84 ← 83	554.082 949	0.000 697
85 ← 84		
86 ← 85	554.287 811	0.000 258
87 ← 86	554.391 539	0.001 189
89 ← 88	554.595 311	−0.000 928
90 ← 89	554.698 558	−0.000 772
91 ← 90	554.801 850	−0.000 669
93 ← 92	555.008 414	−0.000 778
94 ← 93	555.113 279	0.000 604
95 ← 94	555.216 417	0.000 161

96 ← 95			96 ← 95	555.320 719	0.000 784
97 ← 96	555.258 734	0.000 395	97 ← 96		
98 ← 97	555.356 170	−0.000 446	98 ← 97		
99 ← 98	555.455 213	0.000 315	99 ← 98		
100 ← 99	555.552 301	−0.000 885	100 ← 99		
101 ← 100	555.651 894	0.000 411	101 ← 100		
102 ← 101	555.749 755	−0.000 034	102 ← 101	555.942 940	−0.001 113
103 ← 102	555.848 052	−0.000 055	103 ← 102	556.048 998	0.000 587
104 ← 103	555.946 226	−0.000 212	104 ← 103	556.152 490	−0.000 376
105 ← 104	556.044 473	−0.000 310	105 ← 104	556.257 316	−0.000 101
106 ← 105	556.143 845	0.000 699	106 ← 105	556.361 859	−0.000 205
107 ← 106	556.241 086	−0.000 440	107 ← 106	556.467 118	0.000 313
108 ← 107	556.339 166	−0.000 762	108 ← 107	556.571 572	−0.000 070
109 ← 108	556.438 697	0.000 345	109 ← 108		
110 ← 109	556.536 774	−0.000 027	110 ← 109	556.781 441	−0.000 159
111 ← 110	556.634 783	−0.000 493	111 ← 110	556.887 492	0.000 772
112 ← 111	556.733 484	−0.000 296	112 ← 111		
113 ← 112	556.831 724	−0.000 590	113 ← 112		
114 ← 113	556.930 585	−0.000 297	114 ← 113		
115 ← 114	557.029 066	−0.000 418	115 ← 114		
120 ← 119	557.523 744	0.000 643	120 ← 119		
121 ← 120	557.621 713	−0.000 247	121 ← 120		
122 ← 121	557.721 921	0.001 051	122 ← 121		
123 ← 122	557.819 664	−0.000 169	123 ← 122		
124 ← 123	557.917 920	−0.000 930	124 ← 123		
125 ← 124	558.017 961	0.000 036	125 ← 124		

Tabelle G.2 Analysierte Rotationsübergänge von OC_3S, allesamt übernommen aus der Diplomarbeit des Autors.

	$J' \leftarrow J''$	ν_{exp} / MHz	$\nu_{\mathrm{exp}} - \nu_{\mathrm{calc}}$ / MHz	$J' \leftarrow J''$	ν_{exp} / MHz	$\nu_{\mathrm{exp}} - \nu_{\mathrm{calc}}$ / MHz
Grund						
	3 ← 2	8 483.468 3	0.000 4			
	4 ← 3	11 311.284 0	−0.001 5			
	5 ← 4	14 139.110 0	0.011 3			
	6 ← 5	16 966.913 0	0.006 4			
	7 ← 6	19 794.703 0	−0.004 9			
	8 ← 7	22 622.513 0	0.011 4			
	9 ← 8	25 450.292 0	0.005 3			
	10 ← 9	28 278.074 0	0.012 0			
	11 ← 10	31 105.845 0	0.018 5			
	12 ← 11	33 933.587 0	0.007 9			
	13 ← 12	36 761.341 0	0.022 3			
	14 ← 13	39 589.063 0	0.018 8			
	28 ← 27	79 175.110 9	−0.005 8			
	29 ← 28	82 002.507 0	0.005 8			
	30 ← 29	84 829.859 2	0.004 8			
	31 ← 30	87 657.177 3	0.002 2			
	32 ← 31	90 484.460 2	−0.002 0			
	33 ← 32	93 311.717 3	0.002 5			
	34 ← 33	96 138.932 4	0.000 6			
	35 ← 34	98 966.108 5	−0.003 4			
	36 ← 35	101 793.253 3	−0.001 0			
	37 ← 36	104 620.357 4	−0.000 3			
	38 ← 37	107 447.420 1	−0.001 1			
	39 ← 38	110 274.438 7	−0.005 0			

40 ← 39	113 101.426 7	0.002 7	
41 ← 40	115 928.355 3	−0.005 9	
42 ← 41	118 755.243 0	−0.011 1	
43 ← 42	121 582.108 4	0.006 7	
44 ← 43	124 408.907 1	0.004 2	
45 ← 44	127 235.654 9	−0.001 7	
46 ← 45	130 062.356 8	−0.005 0	
47 ← 46	132 889.016 6	−0.000 9	
48 ← 47	135 715.623 5	0.001 1	
49 ← 48	138 542.178 6	0.002 9	
50 ← 49	141 368.674 8	−0.001 3	
51 ← 50	144 195.119 0	−0.003 7	
52 ← 51	147 021.503 2	−0.011 2	
53 ← 52	149 847.850 2	0.000 0	
54 ← 53	152 674.122 5	−0.006 4	
55 ← 54	155 500.347 7	−0.001 8	
56 ← 55	158 326.499 8	−0.011 2	
57 ← 56	161 152.613 9	0.001 6	
58 ← 57	163 978.650 4	−0.001 9	
59 ← 58	166 804.624 2	−0.005 8	
60 ← 59	169 630.540 9	−0.003 5	
61 ← 60	172 456.387 7	−0.006 7	
62 ← 61	175 282.173 1	−0.005 8	
63 ← 62	178 107.888 5	−0.008 4	
76 ← 75	214 835.720 6	0.014 7	
77 ← 76	217 660.388 2	0.004 4	
78 ← 77	220 484.972 2	−0.007 6	
79 ← 78	223 309.501 2	0.008 4	
80 ← 79	226 133.931 1	0.009 4	
81 ← 80	228 958.281 5	0.015 9	
82 ← 81	231 782.525 8	0.002 4	
94 ← 93	265 666.551 7	0.010 2	
95 ← 94	268 489.572 4	−0.017 6	
96 ← 95	271 312.584 5	0.045 8	
97 ← 96	274 135.386 8	0.000 2	
99 ← 98	279 780.775 8	−0.000 1	
100 ← 99	282 603.295 4	−0.020 1	
101 ← 100	285 425.729 6	−0.020 8	
102 ← 101	288 248.058 8	−0.020 9	
122 ← 121	344 671.085 7	0.006 7	

$(\nu_5^1)^{1e}$

4 ← 3	11 320.204 0	0.020 7
5 ← 4	14 150.232 0	0.011 0
6 ← 5	16 980.271 0	0.017 7
7 ← 6	19 810.302 0	0.022 9
8 ← 7	22 640.300 0	0.002 8
9 ← 8	25 470.308 0	0.001 2
10 ← 9	28 300.316 0	0.009 5
11 ← 10	31 130.306 0	0.010 6
12 ← 11	33 960.295 0	0.022 5
13 ← 12	36 790.239 0	0.002 5
14 ← 13	39 620.191 0	0.004 6
28 ← 27	79 237.404 6	0.003 6
29 ← 28	82 067.012 7	0.002 8
30 ← 29	84 896.582 4	−0.005 2
31 ← 30	87 726.131 9	−0.000 8
32 ← 31	90 555.640 9	−0.003 5
33 ← 32	93 385.125 0	0.003 5

$(\nu_5^1)^{1f}$

4 ← 3	11 322.759 0	−0.013 4
5 ← 4	14 153.461 0	0.003 7
6 ← 5	16 984.133 0	−0.003 8
7 ← 6	19 814.809 0	−0.000 9
8 ← 7	22 645.479 0	0.003 7
9 ← 8	25 476.135 0	0.003 0
10 ← 9	28 306.793 0	0.014 0
11 ← 10	31 137.425 0	0.009 9
12 ← 11	33 968.049 0	0.009 7
13 ← 12	36 798.639 0	−0.011 5
14 ← 13	39 629.234 0	−0.013 6
28 ← 27	79 255.527 7	0.007 9
29 ← 28	82 085.767 3	−0.008 2
30 ← 29		
31 ← 30	87 746.209 3	0.017 6
32 ← 31	90 576.349 6	−0.000 4
33 ← 32	93 406.485 9	0.012 2

34 ← 33	96 214.559 8	−0.003 2	96 236.565 9	0.004 2
35 ← 34	99 043.964 8	−0.002 9	99 066.615 7	0.002 7
36 ← 35	101 873.331 3	−0.003 3	101 896.626 5	0.000 2
37 ← 36	104 702.659 7	−0.002 9	104 726.602 9	0.002 1
38 ← 37			107 556.528 4	−0.006 9
39 ← 38	110 361.191 3	−0.006 5	110 386.426 0	−0.002 7
40 ← 39	113 190.397 4	−0.005 4	113 216.281 9	0.002 0
41 ← 40	116 019.558 3	−0.006 4	116 046.085 7	−0.002 3
42 ← 41	118 848.674 6	−0.007 7	118 875.868 5	0.016 7
43 ← 42	121 677.760 9	0.006 2	121 705.593 1	0.022 8
44 ← 43	124 506.784 4	0.003 7	124 535.236 8	−0.005 5
45 ← 44	127 335.757 4	−0.001 8	127 364.868 7	0.001 8
46 ← 45	130 164.686 2	−0.003 1	130 194.444 3	0.001 4
47 ← 46	132 993.563 5	−0.006 4	133 023.953 4	−0.015 9
48 ← 47	135 822.396 6	−0.003 2	135 853.439 7	−0.005 4
49 ← 48	138 651.172 9	−0.005 2	138 682.864 6	−0.004 5
50 ← 49	141 479.891 9	−0.011 7	141 512.240 7	0.000 4
51 ← 50	144 308.573 2	−0.002 1	144 341.544 1	−0.013 6
52 ← 51	147 137.209 7	0.017 5	147 170.787 3	−0.032 8
53 ← 52	149 965.772 6	0.019 4	149 999.982 7	−0.043 9
54 ← 53	152 794.236 3	−0.020 8	152 829.157 6	−0.018 4
55 ← 54	155 622.695 8	−0.007 3	155 658.266 8	−0.000 6
56 ← 55	158 451.085 2	−0.004 8	158 487.281 2	−0.018 3
57 ← 56	161 279.401 7	−0.015 1	161 316.262 5	−0.009 0
58 ← 57	164 107.678 7	−0.003 6	164 145.182 3	0.000 1
59 ← 58	166 935.890 0	0.004 4	166 974.037 1	0.006 5
60 ← 59	169 764.034 3	0.008 6	169 802.841 6	0.025 9
61 ← 60	172 592.136 5	0.035 1	172 631.614 6	0.078 3
62 ← 61	175 420.265 3	0.153 6 *	175 460.473 5	0.282 1 *

$(\nu_7^1)^{1e}$

3 ← 2	8 518.060 5	−0.003 8
4 ← 3	11 357.422 0	0.008 8
5 ← 4	14 196.769 0	0.012 1
6 ← 5	17 036.102 0	0.007 8
7 ← 6	19 875.427 0	0.003 1
8 ← 7	22 714.746 0	0.001 3
9 ← 8	25 554.050 0	−0.005 2
10 ← 9	28 393.371 0	0.016 7
11 ← 10	31 232.632 0	−0.008 6
12 ← 11	34 071.925 0	0.012 1
13 ← 12	36 911.176 0	0.006 1
14 ← 13	39 750.415 0	0.004 7
28 ← 27	79 497.314 5	−0.009 4
29 ← 28	82 336.160 5	−0.002 8
30 ← 29	85 174.960 9	−0.004 9
31 ← 30	88 013.723 2	−0.007 0
32 ← 31	90 852.455 6	0.000 4
33 ← 32	93 691.141 7	0.002 2
34 ← 33	96 529.784 5	0.002 6
35 ← 34	99 368.376 9	−0.004 3
36 ← 35	102 206.936 8	0.000 7
37 ← 36	105 045.442 7	−0.002 6
38 ← 37	107 883.906 0	−0.001 5
39 ← 38	110 722.320 4	−0.001 2
40 ← 39	113 560.683 5	−0.002 8
41 ← 40	116 398.997 7	−0.002 6
42 ← 41	119 237.246 6	−0.015 7
43 ← 42	122 075.469 9	−0.001 3

$(\nu_7^1)^{1f}$

3 ← 2	8 528.570 1	0.000 3
4 ← 3	11 371.413 0	−0.006 9
5 ← 4	14 214.271 0	0.006 6
6 ← 5	17 057.094 0	−0.007 9
7 ← 6	19 899.942 0	0.011 0
8 ← 7	22 742.751 0	0.000 7
9 ← 8	25 585.553 0	−0.005 4
10 ← 9	28 428.369 0	0.015 1
11 ← 10	31 271.148 0	0.012 5
12 ← 11	34 113.916 0	0.014 3
13 ← 12	36 956.658 0	0.006 9
14 ← 13	39 799.410 0	0.027 6
28 ← 27	79 594.926 2	−0.007 6
29 ← 28	82 437.225 2	−0.000 6
30 ← 29	85 279.473 5	−0.004 0
31 ← 30	88 121.687 3	−0.000 1
32 ← 31	90 963.848 3	−0.006 0
33 ← 32	93 805.979 7	0.003 1
34 ← 33	96 648.045 7	−0.007 4
35 ← 34	99 490.078 7	−0.003 7
36 ← 35	102 332.057 7	−0.005 4
37 ← 36	105 173.996 8	0.003 0
38 ← 37	108 015.873 0	−0.000 2
39 ← 38	110 857.696 5	−0.003 4
40 ← 39	113 699.468 1	−0.004 5
41 ← 40	116 541.185 5	−0.004 4
42 ← 41	119 382.848 2	−0.002 2
43 ← 42	122 224.450 8	−0.001 9

$44 \leftarrow 43$	124 913.630 9	0.005 2	
$45 \leftarrow 44$	127 751.719 4	−0.005 1	
$46 \leftarrow 45$	130 589.766 2	−0.000 2	
$47 \leftarrow 46$	133 427.755 9	0.005 7	
$48 \leftarrow 47$	136 265.677 8	0.003 3	
$49 \leftarrow 48$	139 103.537 9	−0.000 4	
$50 \leftarrow 49$	141 941.351 3	0.011 1	
$51 \leftarrow 50$	144 779.081 7	0.002 7	
$52 \leftarrow 51$	147 616.759 5	0.006 1	
$53 \leftarrow 52$	150 454.356 2	−0.006 2	
$54 \leftarrow 53$	153 291.898 5	−0.006 0	
$55 \leftarrow 54$	156 129.382 8	0.004 2	
$56 \leftarrow 55$	158 966.794 6	0.011 1	
$57 \leftarrow 56$	161 804.112 2	−0.005 7	
$58 \leftarrow 57$	164 641.382 8	0.002 2	
$59 \leftarrow 58$	167 478.571 4	0.001 0	
$60 \leftarrow 59$	170 315.686 5	0.000 4	
$61 \leftarrow 60$	173 152.730 0	0.003 5	
$62 \leftarrow 61$	175 989.696 4	0.006 1	
$63 \leftarrow 62$	178 826.572 5	−0.003 8	
$80 \leftarrow 79$	227 040.565 8	−0.011 4	
$81 \leftarrow 80$	229 875.852 4	−0.006 3	
$82 \leftarrow 81$	232 711.044 6	0.004 7	

$(\nu_5^1 + \nu_7^1)^{0e}$

$28 \leftarrow 27$	79 508.734 9	−0.007 2	
$29 \leftarrow 28$	82 348.105 1	−0.002 7	
$30 \leftarrow 29$	85 187.444 5	−0.004 4	
$31 \leftarrow 30$	88 026.758 1	−0.006 7	
$32 \leftarrow 31$	90 866.052 5	−0.002 0	
$33 \leftarrow 32$	93 705.312 8	−0.004 5	
$34 \leftarrow 33$	96 544.546 9	−0.005 3	
$35 \leftarrow 34$	99 383.752 9	−0.005 6	
$36 \leftarrow 35$	102 222.930 1	−0.005 2	
$37 \leftarrow 36$	105 062.076 8	−0.004 9	
$38 \leftarrow 37$	107 901.190 1	−0.006 8	
$39 \leftarrow 38$	110 740.280 0	−0.000 1	
$40 \leftarrow 39$	113 579.335 7	0.005 3	
$41 \leftarrow 40$	116 418.345 1	−0.001 9	
$42 \leftarrow 41$	119 257.347 7	0.018 6	
$43 \leftarrow 42$	122 096.281 9	0.006 2	
$44 \leftarrow 43$	124 935.181 4	−0.004 7	
$45 \leftarrow 44$	127 774.067 9	0.008 5	
$46 \leftarrow 45$	130 612.898 2	0.003 5	
$47 \leftarrow 46$	133 451.690 7	−0.000 6	
$48 \leftarrow 47$	136 290.446 8	−0.001 5	
$49 \leftarrow 48$	139 129.178 3	0.013 5	
$50 \leftarrow 49$	141 967.846 1	0.006 1	
$51 \leftarrow 50$	144 806.472 5	−0.000 5	
$52 \leftarrow 51$	147 645.064 7	0.001 6	
$53 \leftarrow 52$	150 483.617 0	0.007 7	
$54 \leftarrow 53$	153 322.143 3	0.032 4	
$55 \leftarrow 54$	156 160.562 3	−0.004 6	
$56 \leftarrow 55$	158 998.958 9	−0.017 6	
$57 \leftarrow 56$	161 837.336 3	−0.002 7	
$58 \leftarrow 57$	164 675.649 0	−0.004 3	
$59 \leftarrow 58$	167 513.926 4	0.007 6	
$60 \leftarrow 59$	170 352.131 3	−0.003 2	
$61 \leftarrow 60$	173 190.296 7	−0.002 9	

$44 \leftarrow 43$	125 065.997 4	0.001 7	
$45 \leftarrow 44$	127 907.474 9	−0.002 8	
$46 \leftarrow 45$	130 748.899 6	0.001 9	
$47 \leftarrow 46$	133 590.256 9	0.002 8	
$48 \leftarrow 47$	136 431.545 1	−0.000 5	
$49 \leftarrow 48$	139 272.772 0	0.001 1	
$50 \leftarrow 49$	142 113.927 4	−0.001 3	
$51 \leftarrow 50$	144 955.012 6	−0.005 0	
$52 \leftarrow 51$	147 796.038 3	0.002 0	
$53 \leftarrow 52$	150 636.992 1	0.008 6	
$54 \leftarrow 53$	153 477.861 6	0.003 9	
$55 \leftarrow 54$	156 318.657 9	0.000 1	
$56 \leftarrow 55$	159 159.371 2	−0.011 2	
$57 \leftarrow 56$	162 000.025 7	−0.004 4	
$58 \leftarrow 57$	164 840.600 1	0.000 5	
$59 \leftarrow 58$	167 681.088 3	−0.001 3	
$60 \leftarrow 59$	170 521.499 3	0.000 4	
$61 \leftarrow 60$	173 361.829 6	0.003 5	
$62 \leftarrow 61$	176 202.078 1	0.008 3	
$63 \leftarrow 62$			
$80 \leftarrow 79$	227 310.708 0	−0.016 6	
$81 \leftarrow 80$	230 149.143 1	0.003 3	
$82 \leftarrow 81$	232 987.454 8	0.008 6	

$(\nu_5^1 + \nu_7^1)^{0f}$

$28 \leftarrow 27$	79 613.162 2	0.001 5	
$29 \leftarrow 28$	82 455.953 1	0.002 9	
$30 \leftarrow 29$			
$31 \leftarrow 30$	88 141.357 9	−0.001 1	
$32 \leftarrow 31$	90 983.971 1	−0.003 4	
$33 \leftarrow 32$	93 826.521 3	−0.007 0	
$34 \leftarrow 33$	96 669.019 4	0.000 8	
$35 \leftarrow 34$	99 511.446 1	0.002 5	
$36 \leftarrow 35$			
$37 \leftarrow 36$	105 196.112 5	0.022 0	
$38 \leftarrow 37$	108 038.313 8	0.005 0	
$39 \leftarrow 38$	110 880.455 1	0.000 4	
$40 \leftarrow 39$	113 722.500 5	−0.026 1	
$41 \leftarrow 40$	116 564.496 9	−0.025 7	
$42 \leftarrow 41$	119 406.443 2	0.002 2	
$43 \leftarrow 42$	122 248.284 6	0.004 3	
$44 \leftarrow 43$	125 090.045 6	0.006 8	
$45 \leftarrow 44$	127 931.721 0	0.006 2	
$46 \leftarrow 45$	130 773.308 6	0.001 9	
$47 \leftarrow 46$	133 614.810 7	−0.002 3	
$48 \leftarrow 47$	136 456.233 9	0.001 8	
$49 \leftarrow 48$	139 297.565 9	0.003 5	
$50 \leftarrow 49$	142 138.803 5	0.001 0	
$51 \leftarrow 50$	144 979.956 6	0.005 7	
$52 \leftarrow 51$	147 821.014 4	0.008 2	
$53 \leftarrow 52$	150 661.955 0	−0.011 9	
$54 \leftarrow 53$	153 502.825 6	−0.006 0	
$55 \leftarrow 54$	156 343.598 6	−0.000 4	
$56 \leftarrow 55$	159 184.270 2	0.002 4	
$57 \leftarrow 56$	162 024.846 8	0.010 2	
$58 \leftarrow 57$	164 865.304 7	0.000 5	
$59 \leftarrow 58$	167 705.669 3	−0.000 1	
$60 \leftarrow 59$	170 545.930 8	−0.000 2	
$61 \leftarrow 60$	173 386.083 6	−0.004 2	

	62 ← 61	176 028.401 0	−0.012 3		62 ← 61	176 226.139 1	0.000 5
	63 ← 62	178 866.464 6	−0.010 1		63 ← 62		
$(\nu_5^1+\nu_7^1)^{2e}$				$(\nu_5^1+\nu_7^1)^{2f}$			
	28 ← 27	79 614.517 0	0.008 9		28 ← 27	79 617.174 4	0.005 2
	29 ← 28	82 457.496 9	0.007 3		29 ← 28	82 460.449 6	0.004 8
	30 ← 29	85 300.437 3	0.007 7		30 ← 29	85 303.709 6	0.010 1
	31 ← 30	88 143.329 9	0.003 1		31 ← 30	88 146.937 4	0.004 7
	32 ← 31	90 986.185 9	0.006 2		32 ← 31	90 990.150 6	0.007 1
	33 ← 32	93 828.992 9	0.006 0		33 ← 32	93 833.337 5	0.006 3
	34 ← 33	96 671.746 2	−0.000 7		34 ← 33	96 676.496 3	0.001 3
	35 ← 34	99 514.460 5	0.002 2		35 ← 34	99 519.637 8	0.003 8
	36 ← 35				36 ← 35	102 362.748 3	0.001 0
	37 ← 36	105 199.724 0	−0.005 8		37 ← 36	105 205.833 0	−0.001 3
	38 ← 37	108 042.290 2	0.003 3		38 ← 37	108 048.896 4	0.002 4
	39 ← 38	110 884.799 7	0.009 9		39 ← 38	110 891.931 0	0.005 4
	40 ← 39	113 727.229 6	−0.007 4		40 ← 39	113 734.929 7	0.001 6
	41 ← 40	116 569.590 7	−0.036 3		41 ← 40	116 577.913 7	0.013 0
	42 ← 41	119 411.958 8	0.000 3		42 ← 41	119 420.856 2	0.013 7
	43 ← 42	122 254.230 9	0.000 9		43 ← 42	122 263.750 0	−0.002 6
	44 ← 43	125 096.440 3	0.000 2		44 ← 43	125 106.633 0	0.003 0
	45 ← 44	127 938.586 6	−0.000 8		45 ← 44	127 949.469 2	−0.004 5
	46 ← 45	130 780.666 9	−0.003 5		46 ← 45	130 792.275 6	−0.007 2
	47 ← 46	133 622.682 5	−0.005 3		47 ← 46	133 635.057 4	0.001 2
	48 ← 47	136 464.637 1	−0.000 9		48 ← 47	136 477.788 0	−0.005 0
	49 ← 48	139 306.519 1	−0.000 7		49 ← 48	139 320.480 6	−0.011 5
	50 ← 49	142 148.322 6	−0.009 0		50 ← 49	142 163.144 2	−0.008 3
	51 ← 50	144 990.069 5	−0.002 5		51 ← 50	145 005.766 6	−0.006 3
	52 ← 51	147 831.724 8	−0.014 9		52 ← 51	147 848.345 2	−0.007 2
	53 ← 52	150 673.320 6	−0.012 6		53 ← 52	150 690.887 1	−0.002 7
	54 ← 53	153 514.825 1	−0.026 0		54 ← 53	153 533.383 9	0.000 0
	55 ← 54	156 356.268 8	−0.023 1		55 ← 54	156 375.831 8	−0.001 7
	56 ← 55	159 197.645 6	−0.008 7		56 ← 55	159 218.232 1	−0.005 3
	57 ← 56	162 038.936 8	−0.000 0		57 ← 56	162 060.579 9	−0.014 5
	58 ← 57	164 880.138 6	0.000 5		58 ← 57	164 902.902 6	−0.000 6
	59 ← 58	167 721.265 8	0.009 2		59 ← 58	167 745.156 3	−0.006 2
	60 ← 59	170 562.305 5	0.014 5		60 ← 59	170 587.373 4	0.002 5
	61 ← 60	173 403.266 0	0.026 0		61 ← 60	173 429.537 7	0.010 6
	62 ← 61	176 244.142 5	0.040 6		62 ← 61	176 271.660 5	0.030 8
$(2\nu_7^0)^{0e}$							
	4 ← 3	11 417.134 0	0.006 7				
	5 ← 4	14 271.378 0	−0.005 5				
	6 ← 5	17 125.628 0	0.005 3				
	7 ← 6	19 979.836 0	−0.005 5				
	8 ← 7	22 834.039 0	0.002 6				
	9 ← 8	25 688.212 0	0.007 9				
	10 ← 9	28 542.345 0	0.003 9				
	11 ← 10	31 396.446 0	0.001 9				
	12 ← 11	34 250.513 0	0.003 3				
	13 ← 12	37 104.539 0	0.004 5				
	14 ← 13	39 958.519 0	0.003 8				
	28 ← 27	79 907.746 3	0.001 8				
	29 ← 28	82 760.667 8	0.001 7				
	30 ← 29	85 613.494 6	0.003 2				
	31 ← 30	88 466.216 9	−0.000 5				
	32 ← 31	91 318.843 5	0.002 5				
	33 ← 32	94 171.359 2	−0.000 1				
	34 ← 33	97 023.768 5	−0.000 8				
	35 ← 34	99 876.067 7	−0.000 5				

36 ← 35	102 728.249 9	−0.003 2	
37 ← 36	105 580.318 1	−0.002 9	
38 ← 37	108 432.272 5	0.003 0	
39 ← 38	111 284.091 6	−0.004 0	
40 ← 39	114 135.800 5	0.003 8	
41 ← 40	116 987.371 0	0.000 6	
42 ← 41	119 838.814 5	0.000 6	
43 ← 42	122 690.127 8	0.002 8	
44 ← 43	125 541.301 0	−0.000 2	
45 ← 44	128 392.342 6	0.002 4	
46 ← 45	131 243.232 6	−0.007 2	
47 ← 46	134 094.003 6	0.005 8	
48 ← 47	136 944.605 8	−0.006 3	
49 ← 48	139 795.083 1	0.002 3	
50 ← 49	142 645.402 5	0.000 6	
51 ← 50	145 495.578 5	0.004 9	
52 ← 51	148 345.583 9	−0.010 3	
53 ← 52	151 195.451 9	−0.010 1	
54 ← 53	154 045.165 3	−0.010 3	
55 ← 54	156 894.733 0	−0.000 4	
56 ← 55	159 744.142 1	0.007 9	
57 ← 56	162 593.374 5	−0.002 1	
58 ← 57	165 442.457 3	−0.002 3	
59 ← 58	168 291.382 1	0.000 0	
60 ← 59	171 140.141 8	−0.001 3	
61 ← 60	173 988.747 1	0.005 3	
62 ← 61	176 837.177 1	−0.000 3	
80 ← 79	228 080.827 2	−0.011 3	
81 ← 80	230 926.168 9	0.016 2	

$(2\nu_7^2)^{2e}$

4 ← 3	11 417.354 0	−0.008 9
5 ← 4	14 271.683 0	−0.022 5
6 ← 5	17 126.015 0	−0.034 2 *
7 ← 6	19 980.340 0	−0.054 4 *
8 ← 7	22 834.734 0	−0.007 2
9 ← 8	25 689.055 0	−0.035 0
10 ← 9	28 543.429 0	−0.011 9
11 ← 10	31 397.788 0	−0.006 1
12 ← 11	34 252.134 0	−0.016 0
13 ← 12	37 106.495 0	−0.013 6
14 ← 13	39 960.859 0	−0.011 2
28 ← 27	79 922.343 9	−0.004 4
29 ← 28	82 776.776 7	0.002 5
30 ← 29	85 631.196 7	−0.008 3
31 ← 30	88 485.642 9	0.002 3
32 ← 31	91 340.077 5	−0.003 4
33 ← 32	94 194.521 8	−0.004 0
34 ← 33	97 048.970 9	−0.004 3
35 ← 34	99 903.424 0	−0.004 8
36 ← 35	102 757.882 0	−0.004 4
37 ← 36	105 612.344 7	−0.003 1
38 ← 37	108 466.809 9	−0.002 7
39 ← 38	111 321.279 0	−0.001 4
40 ← 39	114 175.750 5	−0.000 4
41 ← 40	117 030.221 7	−0.001 7
42 ← 41	119 884.691 6	−0.005 9
43 ← 42	122 739.173 0	0.000 4
44 ← 43	125 593.644 9	−0.003 0

$(2\nu_7^2)^{2f}$

4 ← 3	11 417.354 0	0.009 3
5 ← 4	14 271.683 0	0.014 0
6 ← 5	17 126.015 0	0.029 7 *
7 ← 6	19 980.340 0	0.047 8 *
8 ← 7	22 834.594 0	0.006 1
9 ← 8	25 688.907 0	0.036 0
10 ← 9	28 543.157 0	0.017 2
11 ← 10	31 397.403 0	0.010 2
12 ← 11	34 251.647 0	0.018 7
13 ← 12	37 105.860 0	0.015 2
14 ← 13	39 960.058 0	0.017 2
28 ← 27	79 915.738 7	−0.001 0
29 ← 28	82 769.441 1	0.003 2
30 ← 29	85 623.090 8	0.000 4
31 ← 30	88 476.693 8	−0.001 8
32 ← 31	91 330.252 6	0.000 7
33 ← 32	94 183.757 2	−0.000 7
34 ← 33	97 037.208 7	−0.003 2
35 ← 34	99 890.615 0	0.002 6
36 ← 35	102 743.962 3	0.004 4
37 ← 36	105 597.243 3	−0.003 5
38 ← 37	108 450.477 5	−0.000 0
39 ← 38	111 303.640 8	−0.007 8
40 ← 39	114 156.763 8	0.005 3
41 ← 40	117 009.805 2	−0.000 4
42 ← 41	119 862.787 8	−0.000 6
43 ← 42	122 715.704 5	−0.000 9
44 ← 43	125 568.562 9	0.007 8

	45 ← 44	128 448.121 2	−0.001 6		45 ← 44	128 421.339 5	0.003 6
	46 ← 45	131 302.593 0	−0.003 4		46 ← 45	131 274.053 6	0.007 3
	47 ← 46	134 157.060 5	−0.007 4		47 ← 46	134 126.684 6	−0.000 2
	48 ← 47	137 011.538 4	0.002 1		48 ← 47	136 979.257 2	0.007 4
	49 ← 48	139 865.997 0	−0.003 5		49 ← 48	139 831.743 8	0.003 9
	50 ← 49	142 720.461 5	0.002 0		50 ← 49	142 684.158 8	0.005 2
	51 ← 50	145 574.912 3	0.000 3		51 ← 50	145 536.482 7	−0.006 6
	52 ← 51	148 429.382 3	0.025 5		52 ← 51	148 388.746 9	0.001 4
	53 ← 52	151 283.785 6	−0.006 9		53 ← 52	151 240.911 2	−0.009 5
	54 ← 53	154 138.205 0	−0.012 7		54 ← 53	154 093.004 5	−0.008 9
	55 ← 54	156 992.625 3	−0.005 4		55 ← 54	156 945.022 3	0.000 1
	56 ← 55	159 847.038 3	0.008 3		56 ← 55	159 796.959 1	0.013 6
	57 ← 56	162 701.415 0	0.001 2		57 ← 56	162 648.778 1	−0.003 7
	58 ← 57	165 555.779 7	−0.000 6		58 ← 57	165 500.530 6	0.000 9
	59 ← 58	168 410.131 3	0.003 7		59 ← 58	168 352.193 6	0.005 9
	60 ← 59	171 264.453 1	−0.000 6		60 ← 59	171 203.758 5	0.004 2
	61 ← 60	174 118.756 1	−0.000 3		61 ← 60	174 055.227 5	−0.000 5
	62 ← 61	176 973.040 6	0.007 0		62 ← 61	176 906.610 8	0.003 5
	80 ← 79	228 342.668 5	0.014 3		80 ← 79	228 213.640 9	−0.007 2
	81 ← 80	231 195.903 6	−0.018 5		81 ← 80	231 062.957 8	−0.002 9
$(\nu_5^1 + 2\nu_7^0)^{1e}$				$(\nu_5^1 + 2\nu_7^0)^{1f}$			
	28 ← 27	80 037.462 0	−0.001 6		28 ← 27	79 923.430 9	−0.003 7
	29 ← 28	82 895.382 5	0.011 9		29 ← 28		
	30 ← 29	85 753.239 2	0.022 2		30 ← 29	85 631.196 7	0.032 7
	31 ← 30	88 610.988 2	−0.012 5		31 ← 30	88 484.893 0	−0.053 3
	32 ← 31	91 468.712 7	−0.006 9		32 ← 31	91 338.659 7	−0.011 7
	33 ← 32	94 326.367 5	−0.004 1		33 ← 32	94 192.326 5	−0.011 0
	34 ← 33	97 183.958 1	0.003 7		34 ← 33	97 045.927 0	−0.015 9
	35 ← 34	100 041.465 1	−0.001 0		35 ← 34	99 899.478 3	−0.007 7
	36 ← 35	102 898.893 5	−0.011 0		36 ← 35	102 752.952 8	−0.012 2
	37 ← 36	105 756.261 4	−0.005 9		37 ← 36	105 606.367 1	−0.011 1
	38 ← 37	108 613.538 1	−0.014 4		38 ← 37	108 459.717 8	−0.006 2
	39 ← 38	111 470.761 2	0.003 2		39 ← 38	111 313.002 4	0.001 6
	40 ← 39	114 327.879 7	−0.001 9		40 ← 39		
	41 ← 40	117 184.942 8	0.021 8		41 ← 40	117 019.347 4	0.006 8
	42 ← 41	120 041.869 0	−0.005 3		42 ← 41	119 872.404 8	0.004 4
	43 ← 42	122 898.740 6	0.001 5		43 ← 42	122 725.390 0	0.005 3
	44 ← 43	125 755.508 8	−0.004 6		44 ← 43	125 578.298 5	0.006 6
	45 ← 44	128 612.200 0	0.005 0		45 ← 44	128 431.132 1	0.011 7
	46 ← 45	131 468.787 7	0.006 1		46 ← 45	131 283.871 4	0.002 7
	47 ← 46	134 325.269 6	−0.001 6		47 ← 46	134 136.558 9	0.023 7
	48 ← 47				48 ← 47	136 989.128 1	0.009 7
	49 ← 48	140 037.954 8	0.004 5		49 ← 48	139 841.628 4	0.011 7
	50 ← 49				50 ← 49	142 694.048 5	0.019 7
	51 ← 50	145 750.217 6	0.002 8		51 ← 50	145 546.363 9	0.010 8
	52 ← 51	148 606.184 9	−0.001 2		52 ← 51	148 398.586 1	−0.002 0
	53 ← 52	151 462.054 3	0.007 2		53 ← 52	151 250.739 8	0.007 3
	54 ← 53	154 317.800 8	0.005 2		54 ← 53	154 102.782 7	−0.002 0
	55 ← 54	157 173.427 5	−0.001 9		55 ← 54	156 954.747 5	0.004 2
	56 ← 55	160 028.935 5	−0.010 9		56 ← 55	159 806.614 0	0.007 0
	57 ← 56				57 ← 56	162 658.373 8	−0.000 6
	58 ← 57	165 739.629 2	0.008 6		58 ← 57	165 510.036 4	−0.007 6
	59 ← 58	168 594.767 3	−0.006 1		59 ← 58	168 361.609 7	−0.004 9
	60 ← 59	171 449.797 4	−0.002 9		60 ← 59	171 213.080 3	−0.004 5
	61 ← 60	174 304.698 1	−0.001 1		61 ← 60	174 064.437 3	−0.016 0
	62 ← 61	177 159.464 2	−0.003 6		62 ← 61	176 915.707 4	−0.011 3
$(\nu_5 + 2\nu_7^2)^{1e}$				$(\nu_5 + 2\nu_7^2)^{1f}$			
	28 ← 27	79 757.521 5	−0.003 4		28 ← 27	79 877.017 7	0.006 8

	29 ← 28	82 605.747 1	−0.001 9		29 ← 28	82 729.472 6	−0.005 8
	30 ← 29	85 453.944 8	−0.001 0		30 ← 29	85 581.900 0	−0.016 1
	31 ← 30	88 302.106 3	−0.008 1		31 ← 30	88 434.329 7	0.006 7
	32 ← 31	91 150.249 1	−0.004 8		32 ← 31	91 286.695 2	−0.002 8
	33 ← 32	93 998.361 1	−0.002 2		33 ← 32	94 139.040 1	−0.000 0
	34 ← 33	96 846.436 4	−0.005 2		34 ← 33	96 991.347 9	−0.000 5
	35 ← 34	99 694.497 7	0.009 7		35 ← 34	99 843.621 1	−0.000 6
	36 ← 35	102 542.496 4	−0.005 1		36 ← 35	102 695.832 0	−0.027 0
	37 ← 36	105 390.480 0	−0.001 1		37 ← 36	105 548.056 8	−0.002 6
	39 ← 38	111 086.334 4	−0.000 7		39 ← 38	111 252.347 3	0.002 3
	40 ← 39	113 934.197 6	−0.009 9		40 ← 39		
	41 ← 40	116 782.044 2	0.001 9		41 ← 40	116 956.467 3	−0.002 9
	42 ← 41	119 629.841 5	0.002 9		42 ← 41	119 808.473 6	0.003 5
	43 ← 42	122 477.597 3	0.002 0		43 ← 42	122 660.426 0	−0.000 9
	44 ← 43	125 325.309 0	−0.002 7		44 ← 43	125 512.349 4	0.010 0
	45 ← 44	128 172.987 1	0.000 5		45 ← 44	128 364.214 2	0.007 5
	46 ← 45	131 020.625 6	0.006 3		46 ← 45	131 216.041 1	0.013 4
	47 ← 46	133 868.206 2	−0.002 5		47 ← 46	134 067.795 8	−0.005 6
	48 ← 47	136 715.756 4	0.002 5		48 ← 47	136 919.535 2	0.008 5
	49 ← 48	139 563.256 2	0.002 3		49 ← 48	139 771.211 4	0.008 7
	50 ← 49	142 410.708 5	0.000 6		50 ← 49	142 622.828 2	−0.000 1
	51 ← 50	145 258.118 6	0.003 7		51 ← 50	145 474.404 4	0.001 9
	52 ← 51	148 105.479 7	0.005 7		52 ← 51	148 325.952 4	0.028 3
	53 ← 52	150 952.793 4	0.009 3		53 ← 52	151 177.392 5	0.000 2
	54 ← 53	153 800.054 7	0.010 3		54 ← 53	154 028.800 4	−0.005 5
	55 ← 54	156 647.255 7	0.001 7		55 ← 54	156 880.156 4	−0.007 6
	56 ← 55	159 494.421 2	0.009 3		56 ← 55	159 731.462 1	−0.003 3
	57 ← 56	162 341.503 6	−0.013 5		57 ← 56	162 582.699 8	−0.009 4
	58 ← 57	165 188.564 7	−0.004 1		58 ← 57	165 433.896 8	0.002 5
	59 ← 58	168 035.562 5	−0.003 5		59 ← 58	168 285.019 4	−0.000 3
	60 ← 59	170 882.484 1	−0.023 6		60 ← 59	171 136.084 6	0.000 3
	61 ← 60	173 729.416 1	0.023 0		61 ← 60	173 987.084 8	−0.002 3
	62 ← 61	176 576.215 7	−0.005 5		62 ← 61	176 838.015 9	−0.011 2
$(\nu_5 + 2\nu_7^2)^{3e}$				$(\nu_5 + 2\nu_7^2)^{3f}$			
	28 ← 27	79 982.998 8	−0.004 0		28 ← 27	79 982.998 8	0.063 8
	29 ← 28	82 839.210 1	−0.000 9		29 ← 28	82 839.210 1	0.079 9
	30 ← 29	85 695.354 7	−0.030 4		30 ← 29	85 695.354 7	0.065 4
	31 ← 30	88 551.503 5	−0.020 4 *		31 ← 30	88 551.503 5	0.092 4 *
	32 ← 31	91 407.583 3	−0.043 1 *		32 ← 31	91 407.583 3	0.089 2 *
	33 ← 32	94 263.636 3	−0.055 0 *		33 ← 32	94 263.636 3	0.099 2 *
	34 ← 33	97 119.659 1	−0.058 6 *		34 ← 33	97 119.659 1	0.120 5 *
	35 ← 34	99 975.597 6	−0.106 7 *		35 ← 34	99 975.597 6	0.100 2 *
	37 ← 36				37 ← 36	105 687.279 4	−0.001 8
	38 ← 37	108 543.432 2	0.016 8		38 ← 37	108 543.098 5	−0.004 9
	39 ← 38	111 399.245 7	0.013 3		39 ← 38	111 398.860 6	−0.016 8
	40 ← 39	114 255.019 1	0.014 6		40 ← 39	114 254.593 9	−0.007 8
	41 ← 40	117 110.718 2	−0.012 2		41 ← 40	117 110.232 8	−0.042 0
	42 ← 41	119 966.417 4	0.008 3		42 ← 41	119 965.898 1	0.002 6
	43 ← 42	122 822.042 3	0.002 6		43 ← 42	122 821.460 4	−0.001 8
	44 ← 43	125 677.622 3	0.001 3		44 ← 43	125 676.969 9	−0.003 6
	45 ← 44	128 533.154 1	0.002 0		45 ← 44	128 532.421 2	−0.006 8
	46 ← 45	131 388.623 7	−0.008 2		46 ← 45	131 387.812 5	−0.011 6
	47 ← 46	134 244.069 6	0.010 2		47 ← 46	134 243.161 0	0.000 5
	48 ← 47	137 099.420 3	−0.013 4		48 ← 47	137 098.415 6	−0.020 1
	49 ← 48	139 954.751 6	−0.002 1		49 ← 48	139 953.638 3	−0.009 7
	50 ← 49	142 810.002 7	−0.015 7		50 ← 49	142 808.774 0	−0.022 2
	51 ← 50	145 665.224 0	−0.003 0		51 ← 50	145 663.870 3	−0.008 2
	52 ← 51	148 520.366 5	−0.011 9		52 ← 51	148 518.874 6	−0.019 0

$53 \leftarrow 52$	151 375.466 2	−0.005 4		$53 \leftarrow 52$	151 373.829 5	−0.010 4	
$54 \leftarrow 53$	154 230.496 2	−0.009 6		$54 \leftarrow 53$	154 228.695 2	−0.020 6	
$55 \leftarrow 54$	157 085.470 0	−0.009 9		$55 \leftarrow 54$	157 083.498 6	−0.021 1	
$56 \leftarrow 55$	159 940.398 1	0.004 9		$56 \leftarrow 55$	159 938.237 6	−0.012 6	
$57 \leftarrow 56$	162 795.243 7	−0.000 9		$57 \leftarrow 56$	162 792.901 0	−0.004 7	
$58 \leftarrow 57$	165 650.036 0	0.002 8		$58 \leftarrow 57$	165 647.483 0	−0.001 4	
$59 \leftarrow 58$	168 504.768 8	0.010 7		$59 \leftarrow 58$	168 501.985 6	0.000 7	
$60 \leftarrow 59$	171 359.426 0	0.007 5		$60 \leftarrow 59$	171 356.411 2	0.005 6	
$61 \leftarrow 60$	174 214.029 6	0.016 1		$61 \leftarrow 60$	174 210.760 2	0.015 4	
$62 \leftarrow 61$	177 068.581 7	0.039 5		$62 \leftarrow 61$	177 065.041 8	0.040 9	