

$o_3(v)$   ${}^1\Pi_u - X(0)$   ${}^1\Sigma_g^+$  Band of the  ${}^{14}\text{N}_2$ . Values with B are blended lines.

J	$o_3(0) - X(0)$			$o_3(1) - X(0)$		
	R(J)	Q(J)	P(J)	R(J)	Q(J)	P(J)
0	105686.3			107652.3B		
1	105689.0	105682.1		107654.5B	107647.9B	
2	105691.2	105680.9	105674.0B	107655.7B	107645.6B	107639.8B
3	105692.9	105679.2	105669.3	107655.7B	107643.3B	107634.8B
4	105693.5B	105676.7	105663.2	107654.5B	107639.8B	107627.3
5	105693.5B	105674.0B	105656.5	107653.6	107634.8B	107619.4B
6	105693.5B	105670.1	105649.8B	107652.3B	107629.5B	107610.9B
7	105692.9B	105665.9	105642.3	107650.7	107624.4	107601.9B
8	105691.2B	105661.1	105633.9	107649.6	107619.4	107592.5
9	105689.0B	105656.1	105625.1	107647.7B	107613.9	107583.4B
10	105686.3B	105649.8B	105615.8	107645.6	107608.3	107573.8B
11	105682.9	105643.4	105605.6	107643.3	107601.9B	107564.4
12	105679.2B	105636.1	105595.0	107639.8B	107595.7	107554.2B
13	105674.0B	105628.5	105583.8	107636.3B	107588.4	107543.9
14	105669.3B	105620.1	105571.5	107632.6	107581.3	107532.8
15	105662.8	105611.3	105559.2	107627.3B	107573.8B	107521.2
16	105655.8	105601.3	105545.9	107623.5	107564.4B	107509.3
17	105645.7	105590.8	105531.8	107617.7B	107556.2	107496.7
18	105643.4B	105579.7	105516.8	107610.9B	107546.8	107484.1
19	105633.9B	105567.7	105498.8		107537.0	107470.5
20	105623.5	105554.7	105488.4		107526.5	107456.5
21	105612.3	105541.1	105470.5		107515.7	107441.9
22	105599.5	105526.1	105452.8B		107504.2	107426.4
23	105586.0	105510.3	105433.1		107492.3	107410.8
24	105571.5B	105492.7	105413.1		107480.2	107394.0
25	105554.7B	105473.9	105391.7		107466.9	107375.3
26	105535.7	105452.8B	105368.80		107453.3	107357.8
27	105515.1	105430.6				
28	105492.7B	105405.8				
29	105466.4	105378.6				
30	105438.1					

J	$o_3(2) - X(0)$			$o_3(3) - X(0)$		
	R(J)	Q(J)	P(J)	R(J)	Q(J)	P(J)
0	109564.9			111450.8		
1	109567.8	109560.4		111453.2	111446.7	
2	109570.3	109560.0	109552.9B	111455.8	111445.6	111438.8B
3	109572.3	109558.2	109547.8	111457.4	111443.9	111433.7
4	109573.2B	109555.9	109542.1B	111458.7B	111441.5	111427.9
5	109573.2B	109552.9B	109535.9B	111458.7B	111438.3B	111422.3
6	109573.2B	109549.6	109529.5	111458.7B	111435.1	111414.6
7	109573.2B	109545.8B	109521.8	111458.7B	111431.2	111407.3
8	109572.4B	109541.4	109514.0	111457.4B	111426.6	111399.5
9	109570.3B	109535.9B	109505.3	111455.8B	111421.5	111390.6
10	109567.8B	109530.0	109496.2	111453.2B	111415.3	111381.6
11	109564.9B	109524.2B	109486.5	111449.5	111409.5	111371.7
12	109560.9	109517.3B	109476.5B	111445.6B	111402.6	111361.2
13	109558.2B	109509.5	109465.2B	111438.8B	111395.1	111349.9
14	109552.9B	109502.2	109453.8	111438.8B	111387.1	111337.9B
15	109547.8B	109492.9	109442.5	111431.2B	111378.6	111323.2
16	109541.1	109484.0	109428.8B	111427.9B	111369.3	111317.6
17	109534.3B	109473.3	109416.3	111421.5B	111359.5	111303.5
18	109536.5B	109463.9	109401.5	111415.3B	111349.3	111289.2
19	109515.1B	109450.8	109387.9	111407.3B	111337.9	111274.6
20	109500.7	109436.3	109370.9	111399.5B	111326.4	111259.5
21	109476.5B	109417.0	109352.5	111389.4	111314.1	111243.9
22	109447.4B	109390.3	109329.5		111300.9	111227.6
23	109414.1	109356.3	109298.9		111286.6	
24	109376.7	109318.0	109261.1	111344.2	111270.2	
25	109338.2	109277.1	109218.9B	111309.3	111247.2	
26	109297.6	109233.9	109174.4	111264.8		
27	109254.1	109188.3B		111222.2		
28	109210.3	109142.3				
29	109165.0				111061.7	
30					111007.2	

J	$o_3(4) - X(0)$			$o_3(5) - X(0)$		
	R(J)	Q(J)	P(J)	R(J)	Q(J)	P(J)
0	113310.3			115177.3B		
1	113313.1	113306.2		115179.6B	115173.3B	
2	113315.8	113305.3	113298.8B	115180.0B	115171.8	115165.1B
3	113317.7	113303.7	113293.4	115180.0B	115168.8	115159.8B
4	113318.9	113301.7	113287.8B	115180.0B	115165.1B	115152.0B
5	113319.7B	113298.8	113282.4B	115177.3B	115159.8B	115145.2
6	113319.7B	113295.5	113275.0	115173.3B	115151.4	115136.6B
7	113319.7B	113291.7	113267.8		115144.2	115125.7
8	113318.9B	113287.8B	113260.1			115113.2
9	113317.3B	113282.4B	113251.9			
10	113315.8B	113277.2	113242.9B			
11	113313.3B	113271.3	113234.0B			
12	113310.3B	113264.8	113224.0			
13	113306.2B	113257.9	113213.5			
14	113301.7B	113250.6	113202.6			
15	113298.8B	113242.9B	113190.6B			
16	113291.7B	113234.0B	113178.8			
17	113279.4	113224.6	113165.9			
18	113287.8B	113215.5	113151.6			
19	113272.4	113205.0	113132.4B			
20	113264.8B	113195.3	113132.4B			
21		113181.3	113109.5B			
22		113162.0	113094.7			
23		113121.5				

J	$o_3(0) - X(1)$		
	R(J)	Q(J)	P(J)
0	103356.5		
1	103359.3B	103352.4	
2	103361.6B	103351.5	103344.7B
3	103363.2B	103349.8	103339.7
4	103364.4B	103347.5	103334.0
5	103364.4B	103344.7B	103327.8B
6	103364.4B	103341.4	103321.0B
7	103364.4B	103337.4	103313.7
8	103363.2B	103332.9	103305.6
9	103361.6B	103327.8B	
10	103359.3B	103321.0B	
11		103315.1	
12		103308.3	

J	$o_4(0) - X(0)$		
	R(J)	Q(J)	P(J)
0	122158.8		
1	122162.0	122153.8B	
2	122164.5	122153.8B	122147.4B
3		122152.5	
4	122168.5B	122150.0	122136.5B
5	122169.1B	122147.4B	122131.6
6	122169.1B	122144.4	122124.3
7	122169.1B	122140.8	122117.1
8	122169.1B	122136.5B	122109.8
9	122168.5B	122131.8	122101.6
10		122126.5	122093.7
11		122121.0	122084.9B
12		122114.8	122076.3B
13		122108.3	122066.9B
14		122101.0	122059.2
15		122093.4	122033.9
16		122084.9B	122024.2B
17		122076.3B	122013.4B
18		122066.9B	122001.4B
19		122055.5B	121988.6B
20		122047.3	121975.4B
21		122036.6	121962.5B
22		122024.2B	
23		122013.4B	
24		122001.4B	
25		121988.6B	
26		121975.4B	
27		121962.5B	

References:

*High Resolution Absorption Spectrum of N<sub>2</sub> in the Vacuum-UV Region, o<sub>3,4</sub> <sup>1</sup>Π<sub>u</sub> - X <sup>1</sup>Σ<sub>g</sub><sup>+</sup> Bands*, K. Yoshino, oY. Tanaka, P.K. Carroll and P. Mitchell, J. Mol. Spectros. **54**, 87-109 (1975).