

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

J	$c_3(0) - X(0)$			$c_3(1) - X(0)$		
	R(J)	Q(J)	P(J)	R(J)	Q(J)	P(J)
0	104141.2B			106531.4		
1	104143.4B	104137.8B		106534.4	106526.9B	
2	104144.0B	104135.6	104128.7B		106526.3B	106519.5B
3	104144.0B	104133.0	104123.7B		106524.6	106514.4
4	104143.4B	104128.7B	104116.2		106522.3	106508.5
5	104141.2B	104123.7B	104108.3		106519.5B	106502.3B
6	104137.8B	104118.0	104099.3		106516.0	106496.1B
7	104133.6	104111.2	104089.2		106512.0	106488.5
8	104128.7B	104103.4	104078.2		106507.5	106480.4
9	104122.4	104094.7	104066.0		106502.3B	106471.6
10	104115.2	104084.9	104052.9		106496.1B	106462.1
11	104107.0	104074.2	104038.8		106489.5	106451.5
12	104097.9	104062.3	104023.8	106521.3	106482.6	106440.2
13	104087.6	104049.4	104007.7	106514.0B	106474.0	106427.6
14	104076.4	104035.7B	103990.5	106504.9	106465.5	106413.8
15	104064.1	104020.7B	103972.4	106496.1B	106455.6	106398.5
16	104050.6	104004.6B	103953.3	106483.0B	106444.9	106381.8
17	104035.7B	103987.5	103933.1	106471.6B	106433.3	106364.4
18	104020.7B	103969.4	103911.8	106462.1B	106419.9	106344.6
19	104004.6B	103950.0	103889.4		106405.7	106324.9
20	103985.9	103929.5	103865.8		106389.8	106307.8
21	103966.9	103907.8	103841.3			
22	103946.5	103884.7	103815.4			
23	103925.0	103860.6	103788.5			
24	103902.0	103834.9	103760.1			
25	103877.7	103807.9	103730.7			
26	103852.0	103779.7	103699.9			
27	103824.8	103750.0	103667.5			
28	103795.2	103718.9	103634.1			
29	103766.2	103686.2	103598.8			
30	103734.3	103651.8				
31	103700.9	103616.0				
32	103666.2					
33	103629.5					

J	$c_3(2) - X(0)$			$c_3(3) - X(0)$		
	R(J)	Q(J)	P(J)	R(J)	Q(J)	P(J)
0	108698.0			110799.6		
1	108701.2	108693.2B		110803.2	110795.1B	
2	108704.2	108693.3B	108686.4	110806.3	110795.1B	110787.6B
3	108707.0	108692.4	108681.4B	110809.2	110794.3	110783.3
4	108709.4	108690.8	108676.3	110811.8	110793.0	110778.8
5	108711.1	108688.9	108670.9B	110814.3	110791.5	110773.6
6	108712.9B	108686.8	108665.6	110816.0	110789.6	110768.1
7	108714.3B	108684.5	108659.4	110817.6	110787.6B	110762.5
8	108714.3B	108681.4B	108652.8		110784.9	110756.3
9	108714.3B	108678.3	108646.1		110782.2	110749.6
10	108714.3B	108674.8	108638.8		110778.8	110742.4
11	108712.9B	108670.9B	108631.0		110775.6	110734.3
12	108711.1B	108666.2	108622.7		110771.8	110725.3
13	108709.4B	108661.6	108613.8		110768.0	110714.8
14	108706.6B	108656.3	108604.4			110702.8
15	108702.4	108650.6	108594.1			110688.5
16	108697.7B	108644.2	108583.3B			110672.2
17		108637.2	108571.3			110653.8
18	108684.5B	108629.4	108558.6			110634.6
19		108620.4	108544.7B			
20	108665.8B	108610.2	108529.3B			
21	108655.0	108598.3	108513.4B			
22	108631.0B	108583.3B	108495.8			
23	108625.0	108566.6	108476.3B			
24		108552.8	108444.8			
25		108538.1	108430.8			
26			108410.2			
27		108506.0				
28		108486.6				

J	$c_3(4) - X(0)$		
	R(J)	Q(J)	P(J)
2	112859.2		
3	112860.4B		
4	112863.4B		112831.20
5	112863.4B		112825.70
6	112863.4B	112844.9	112819.30
7	112860.4B	112842.5	112812.30
8	112885.9	112839.9	112803.80
9			112793.40
10			112810.40
11			112800.20

J	$c_3(0) - X(1)$			$c_3(1) - X(1)$		
	R(J)	Q(J)	P(J)	R(J)	Q(J)	P(J)
0				104201.5B		
1	101458.8B			104204.5B	104197.5	
2	101458.8B			104207.0	104196.6	104190.1B
3	101458.8B			104208.9	104195.1	104184.9
4			101431.7	104210.3B	104192.9	104179.3B
5	101453.5		101422.2B	104210.3B	104190.1B	104173.4
6		101430.2B	101413.5B	104210.3B	104187.1	104166.9
7		101422.2B	101403.1B		104183.2	104159.6
8		101413.5B	101391.7B		104179.3B	
9	101430.2B	101403.1B	101379.2B		104172.7	
10	101422.2B	101391.7B	101364.8		104168.4	
11	101412.2	101379.2B	101349.6			
12	101401.2	101365.9	101333.4			
13	101384.7	101351.3	101316.0			
14		101335.4	101297.5			
15		101318.5	101277.8			
16		101300.4	101257.0			
17		101281.1	101235.1			
18		101260.5				
19		101239.0				

J	$c_4(0) - X(0)$			$c_4(1) - X(0)$		
	R(J)	Q(J)	P(J)	R(J)	Q(J)	P(J)
0	115569.5			117750.8		
1	115573.2	115565.1B		117754.6	117745.9B	
2	115576.7	115565.1B	115557.4B	117758.3	117745.9B	117739.3B
3	115580.0	115565.1B	115553.3	117761.6	117745.9B	117734.6
4	115583.1	115564.7	115548.6B	117764.9	117745.5	117730.3
5	115586.0	115563.9	115544.0	117768.0		117726.0
6	115588.8	115563.1	115539.2	117770.9	117743.3	117721.2B
7	115590.7	115562.1	115534.3	117773.6	117742.1	117716.2
8	115594.1B	115560.7B	115529.3	117775.6	117740.9	117711.1
9	115596.0	115560.7B	115523.7	117778.1	117739.3B	117705.7
10	115597.6	115558.9	115518.8	117778.7	117737.7	117699.9
11	115599.3	115557.4B	115512.3		117735.8B	117693.8
12	115600.4	115555.6	115506.1	117780.6	117733.9	
13	115601.1	115554.0	115499.7		117731.5	
14		115552.3	115492.9			
15		115550.3	115485.7		117729.7	
16		115548.6B	115478.0		117724.1	
17		115546.1	115469.6		117721.2B	
18		115543.7	115460.4		117718.2	
19						
20					117708.3	
21						
22					117702.9	

J	$c_5(0) - X(0)$			$c_5(1) - X(0)$		
	R(J)	Q(J)	P(J)	R(J)	Q(J)	P(J)
0	119742.9			121924.9		
1	119746.4			121928.1	121919.7B	
2	119749.4		119730.9	121930.9	121919.7B	121913.0
3	119752.5		119727.0B	121933.5	121919.1	
4	119755.2		119721.4B	121936.2	121916.3	
5	119757.6	119734.5	119716.7B	121938.4		
6	119759.7	119733.4	119711.4B			
7	119761.5	119731.8	119705.7B			
8	119762.9	119729.1	119699.7			
9		119727.0B	119693.7			
10		119725.3	119687.3			
11		119723.3	119679.9			
12		119721.4B	119669.2B			
13		119719.0	119669.2B			
14		119716.7B	119661.1			
15		119714.1	119653.4			
16		119711.4B	119645.5			
17		119708.6	119637.5			
18		119705.7B	119629.1			
19		119702.8	119620.7			
20		119696.3	119611.8B			
21			119603.4			
22			119594.1			
23			119584.2			
24			119574.7			

J	$c_6(0) - X(0)$			$c_8(0) - X(0)$		
	R(J)	Q(J)	P(J)	R(J)	Q(J)	P(J)
0	121774.5			123618.5		
1	121777.3	121769.5B		123621.4	123614.1	
2	121780.1	121769.5B		123623.6		123608.1B
3	121782.6	121768.0				123601.4B
4	121784.3	121765.8	121752.3			123595.2B
5		121763.1				123589.8B
6	121787.3	121760.1	121740.8			123581.4B
7			121734.5			123572.0B
8			121727.8			
9		121754.5	121720.8		123610.7	
10		121750.0	121713.4		123608.1B	
11		121745.2	121705.7		123606.6	
12		121742.1	121697.9		123604.9	
13		121736.3	121689.8		121736.3	
14		121730.0	121681.4		123601.4B	
15		121723.3	121673.0		123599.5	
16			121664.1		123597.2	
17			121655.1		123595.2B	
18			121645.6		123592.5	
19			121636.1		123589.8B	
20			121626.8		123587.2	
21					123584.2	
22					123581.4B	

References:

The c_n $^1\Pi_u$ and c'_n $^1\Sigma_u^+$ Ryberg States of N_2 , P.K. Carroll and K. Yoshino, J. Phys. **B5**, 1614-1633 (1972).

High Resolution Vacuum Ultraviolet Absorption Spectrum of N_2 : Perturbations in the $c'_5(0)$ $^1\Sigma_u^+$ and $c_4(0)$ $^1\Pi_u$ Rydberg Levels, K. Yoshino and D.E. Freeman, Can. J. Phys., **62**, 1478-1487 (1984).