

The Term Values of the $b(v) \ ^1\Pi_u$ Level of $^{14}\text{N}_2$. Values with B are averaged of all blended lines.

J	$v = 0$		$v = 1$		$v = 2$	
	Π^-	Π^+	Π^-	Π^+	Π^-	Π^+
1	100820.2	100819.7	101454.8B	101454.3	102154.6B	102152.9B
2	100825.8B	100825.3	101459.9	101460.1	102160.3	102158.9B
3	100833.9B	100834.0B	101468.5	101468.5	102168.9	102168.6
4	100845.8	100845.9B	101479.8	101479.7	102179.8B	102179.6
5	100860.4	100860.6	101494.1	101494.0B	102193.4B	102193.4
6	100877.8B	100877.8	101510.8B	101510.6B	102210.2	102210.1
7	100897.7B	100898.0	101530.1B	101530.5	102229.7	102229.5
8	100920.8	100921.0	101553.2B	101553.0	102251.7	102251.4B
9	100947.0	100947.0	101578.3B	101578.1	102276.8	102276.8B
10	100976.0B	100975.8	101606.2B	101606.4	102304.5B	102304.8
11	101007.5B	101007.5	101637.0	101637.4	102334.8B	102334.8
12	101042.0B	101042.1	101670.9	101670.9	102368.1B	102367.9
13	101079.3	101079.4	101707.5	101707.4	102403.8B	102404.0
14	101119.8	101119.7	101746.8	101746.7	102442.4B	102442.6
15	101162.7	101162.8	101788.7	101788.7	102483.7B	102483.9
16	101208.7	101208.7	101833.6	101833.5	102528.0B	102528.0
17	101257.3	101257.5	101881.1	101881.0		102574.9
18	101308.8	101308.9	101931.3	101931.5	102624.3	102624.4
19	101362.9	101363.0	101984.4	101984.5	102676.6	102676.7
20	101419.9	101420.0	102040.2	102040.3	102731.5	102731.6
21	101479.8	101479.7	102098.8	102098.8	102789.2	102789.3
22	101542.1	101542.2	102160.1	102160.1	102849.5	102849.5
23	101607.4	101607.5	102224.1	102224.1	102912.5	102912.5
24	101675.3	101675.5	102290.7	102290.9	102978.1	102978.2
25	101745.9	101746.1	102360.2	102360.3	103046.4	103046.4
26	101819.3	101819.3	102432.3	102432.5	103117.5	103117.4
27	101895.2	101895.2	102507.1	102507.2	103191.1	103191.1
28	101973.6	101973.7	102584.6	102584.7	103267.2	103267.2
29	102054.8	102055.0	102664.8	102664.8	103346.2	103346.0
30	102138.5	102138.6	102747.5	102747.6	103427.5	103427.6
31	102224.9	102225.0	102833.0	102832.7B	103511.6	103511.5
32	102313.8	102314.0		102921.0	103598.2	103598.2
33	102405.3	102405.4		103011.8	103687.4	103687.4
34	102499.4	102499.5		103105.0		
35	102595.8	102596.1				
36		102695.0				

J	$v = 3$		$v = 4$		$v = 5$	
	Π^-	Π^+	Π^-	Π^+	Π^-	Π^+
1	102862.8B	102862.7B	103551.8	103551.5B	104702.7	104702.7
2	102868.5	102867.7B	103556.8B	103557.1B	104708.6B	104708.5
3		102876.0B	103565.7	103565.2B	104716.9	104716.9
4	102889.0B	102888.1B	103577.1	103576.9B	104728.4	104728.5B
5	102903.0B	102902.7B	103591.5	103591.5B	104742.8	104743.0B
6	102919.6B	102918.6B	103608.8B	103608.1	104760.0	104760.3
7		102938.6	103628.2B	103628.5	104780.2B	104780.5
8	102961.1B	102960.8B	103651.2B	103650.7	104802.8B	104803.7
9	102986.2B	102986.3B	103676.2B	103676.2	104828.4B	104829.6
10	103014.3B		103704.5	103704.4	104857.4	104858.6
11	103044.4B	103045.0B	103735.8	103735.5	104889.0	104890.6
12	103077.6B	103078.2B	103769.7	103769.3	104923.5	104925.5
13		103114.1	103806.2	103805.9	104960.8	104963.4
14	103152.3B	103153.1B	103845.5	103845.3	105001.5	105004.4
15	103193.5B	103194.18	103887.8	103887.2	105044.7	105048.3
16	103237.5B	103238.0B	103932.6	103932.0	105091.0	105095.4
17	103284.2B	103284.3	103980.0	103979.6	105140.4	105145.6
18	103333.1B	103333.4	104030.4	104028.2	105192.7	105199.1
19	103384.9B	103385.2	104082.6	104082.3	105247.9	105255.8
20	103439.5B	103439.9	104138.5	104137.8	105306.3	105316.2
21	103496.8B	103496.9	104196.7	104196.0	105367.7	105379.6
22	103556.6B	103557.0	104257.5	104256.9	105432.1	
23	103619.0B	103619.4	104320.7	104320.1	105499.6	
24	103684.3B	103684.4	104386.8	104385.9	105570.5	
25	103751.9	103752.1	104455.0	104454.6		
26	103822.1	103822.5	104526.5	104525.2		
27	103895.1B	103895.4	104599.6	104598.9		
28	103970.5B	103970.9	104675.8	104675.1		
29	104048.8B	104048.9	104754.5	104753.7		
30	104129.4B	104129.5	104835.5	104834.9		
31	104212.7	104212.5	104919.1	104918.3		
32	104298.5B	104298.3		105004.6		
33		104386.4		105092.8		
34		104477.0				
35		104569.9				

J	$v = 6$		$v = 7$		$v = 8$	
	Π^-	Π^+	Π^-	Π^+	Π^-	Π^+
1	105348.6	105348.6	106112.0	106112.5B	106935.8	106935.5B
2	105354.1	105354.0	106117.5B	106117.6	106940.5B	106940.6B
3	105362.5B	105362.2	106124.8B	106125.5	106948.3	106948.6B
4	105372.9B	105373.2	106136.1	106136.1	106959.1	106959.3
5	105386.7	105386.9	106149.5	106149.5	106972.3	106972.3
6	105403.1	105403.2	106165.5	106165.6	106988.3	106988.4
7	105422.2	105422.2	106184.3	106184.3	107006.7	107007.1
8	105443.9	105444.1	106205.7	106205.7	107028.1	107028.5
9	105468.4	105468.5	106229.8	106229.8	107052.1	107052.4
10	105495.6	105495.7	106256.6	106256.6	107079.0	107079.1
11	105525.4	105525.7	106286.1	106286.1		107109.3
12	105558.1	105558.2	106318.3	106318.2		
13	105593.2	105593.7	106353.0	106353.0		
14	105631.3	105631.5	106390.6	106390.6		
15	105672.0	105672.3	106430.8	106430.7		
16	105715.4	105715.7	106473.9	106473.6		
17	105761.4	105762.0	106519.6	105619.4		
18	105810.0	105810.8	106568.3	106567.9		
19	105861.6	105862.5	106619.6	106619.1		
20	105915.8	105916.7	106674.0B	106673.4		
21	105972.7B	105973.8	106730.9B	106730.7		
22		106032.6B	106791.6	106791.0		
23			106855.2	106854.5		
24			106922.1	106921.4		
25			106992.9	106991.9		
26			107066.3	107065.3		
27			107145.2	107143.7B		
28				107229.8		
29				107319.5		

J	$v = 9$		$v = 10$		$v = 11$	
	Π^-	Π^+	Π^-	Π^+	Π^-	Π^+
1	107633.5	107634.8	108373.9	108374.3B	109122.0	109121.9B
2	107640.4	107640.9B	108378.8	108378.9B	109126.9B	109126.4B
3	107651.2B	107651.2B	108386.3B	108386.3	109133.7B	109133.9B
4	107663.3B	107661.6	108395.6B	108395.9	109142.8B	109143.3
5	107677.4B	107676.1	108407.7	108407.9	109155.0	109155.0B
6	107691.9	107692.5	108422.5	108422.5	109169.4	109169.6B
7	107712.2B	107710.6	108439.3	108439.3	109186.0	109186.5B
8	107731.6B	107731.1	108458.6	108458.6	109205.0	109205.5
9	107754.1	107754.4	108480.4	108480.5	109226.5	109226.8
10	107779.5	107779.3	108504.5	108504.5	109250.3	109250.7
11	107806.4	107807.0	108531.0	108531.1	109276.5	109277.2
12	107836.8	107836.5	108560.0	108560.0	109305.3	109306.4
13	107868.8	107868.8	108591.2	108591.2	109336.4	109337.4
14	107903.5	107903.5	108624.9	108625.0	109370.2	109371.4
15	107940.4	107940.4	108661.1	108661.0	109406.0	109408.0
16	107979.8	107980.0	108699.5	108699.3		109447.4
17	108021.7	108021.8	108740.2	108740.2		109489.8
18	108066.1	108066.2	108783.5	108783.4		109532.7
19	108113.0	108113.2	108828.3	108828.6		
20	108162.9B	108162.4	108876.0	108875.5B		
21	108214.2	108214.5	108926.2	108925.8B		
22	108268.5	108268.8				
23	108325.6	108326.0				
24	108384.9	108384.9				
25	108447.0	108447.4				
26	108511.7	108512.2				
27	108578.6					
28	108648.8	108649.7				

J	$v = 12$		$v = 13$		$v = 14$	
	Π^-	Π^+	Π^-	Π^+	Π^-	Π^+
1	109833.5	109833.0B	110531.3	110530.7B	111211.7B	111211.4
2	109837.7B	109837.9	110535.2	110535.1B	111216.1	111215.7B
3	109844.9B	109844.9	110542.5B	110542.6	111222.9	111222.6
4	109853.9B	109853.9	110551.3B	110551.4B	111231.6B	111231.5B
5	109865.1	109865.5	110562.4B	110562.7	111242.4B	111242.4
6	109879.3	109879.3	110575.6B	110575.9	111255.4B	111255.6
7	109895.3	109895.3	110591.2	110591.3	111270.4B	111270.8
8	109913.6	109913.7	110609.3	110609.2	111288.0	111288.3
9	109934.3	109934.4	110629.4	110629.3	111307.7	111307.8
10	109957.2	109957.3	110651.7	110651.6	111329.6	111329.7
11	109982.5	109982.6	110676.4	110676.1	111353.6	111353.8
12	110010.1	110010.2	110703.1	110702.9	111379.9	111379.9
13	110040.0	110040.1	110731.9	110731.9	111408.1	111408.3
14	110072.3	110072.4	110763.2	110762.9	111438.6	111438.8
15	110106.9	110107.0	110796.5	110796.4	111471.3	111471.4
16	110143.8	110144.0	110832.2	110832.0	111506.0	111506.4
17		110183.5	110869.9	110869.9		111543.4
18		110225.6	110910.0	110909.9		111582.7
19		110270.7		110952.1		
20		110318.9B		110996.8		
21		110375.3		111043.2		
22	110439.0	110439.4				
23	110512.8B	110512.4				
24	110592.6B	110591.6				
25		110674.4B				
26	110764.8	110762.0B				
27		110854.2				
28		110948.9				
29		109222.2				

J	$v = 15$		$v = 16$		$v = 17$	
	Π^-	Π^+	Π^-	Π^+	Π^-	Π^+
1	111873.8B	111874.1	112510.3	112510.4	113128.9	113129.0B
2	111878.5	111878.2	112514.5	112514.5	113132.9	113133.1B
3	111884.9	111885.0	112520.9	112520.8	113139.0	113139.1
4	111893.5	111893.4B	112529.3	112529.1	113147.1	113147.2
5	111904.4B	111904.2	112539.8	112539.5	113157.3	113157.3
6	111917.1B	111916.9	112552.3	112552.1	113169.5	113169.3
7	111931.9B	111931.8	112566.9B	112566.7	113183.6	113183.4
8	111948.7B	111948.8	112583.4B	112583.2	113199.8	113199.7
9	111967.8B	111968.1	112602.2B	112601.9	113218.1	113217.9
10	111989.2	111989.3	112622.8B	112622.3	113238.5	113238.2
11	112012.3	112012.7	112645.6B	112645.5	113260.9	113760.6
12	112038.2	112038.4	112670.5B	112670.2	113285.6B	113285.1
13	112065.6	112065.8	112697.1B	112697.2		
14	112095.5	112095.6	112726.1B	112726.3		
15	112127.3	112127.4	112756.9B	112757.1		
16	112161.3	112161.9	112790.0B	112790.2		
17	112197.1B	112197.3		112825.2		
18	112235.6	112235.8	112862.0B	112862.1		
19	112276.2	112276.0	112900.8B			
20	112318.3	112318.7				
21						
22						
23		112458.7				
24	112514.2	112515.9B				
25	112575.2					
26	112652.3	112651.5B				
27	112740.4	112744.6				
28	112836.9	112835.7				
29		112932.9				
30		113033.4				
31		113137.3				

J	$v = 18$		$v = 19$		$v = 22$	
	Π^-	Π^+	Π^-	Π^+	Π^-	Π^+
1	113709.0	113708.7B	114256.5	114256.4	115664.7B	115664.7
2	113712.8	113712.5B	114260.2	114260.2	115667.9	115667.9
3	113718.7	113718.6	114266.1	114265.8	115672.6	115672.7
4	113726.4	113726.5	114273.5B	114273.2	115679.0	115679.1
5	113736.2	113736.2	114283.0B	114282.5	115687.0	115687.0
6	113747.8	113747.7	114294.1B	114293.9	115696.5	115696.5
7	113761.4	113761.4	114307.1B	114306.9B		115706.7
8	113776.9	113776.9	114321.8B	114321.9B		
9	113794.3	113794.4	114338.9B		115733.9	
10	113813.8	113813.7				
11	113835.0	113835.0				
12	113858.3B	113858.1B				
13		113883.2				
14		113910.0B				

J	$v = 23$		$v = 24$	
	Π^-	Π^+	Π^-	Π^+
1	116030.3B	116030.5	116338.5	116338.4
2	116033.4	116033.4	116341.1	116341.1
3	116037.8	116037.8	116345.0	116345.2
4	116043.6	116043.6	116350.3	116350.5B
5	116050.9	116051.3	116357.0	116362.1B
6	116059.7	116059.7	116364.9	116365.1B
7	116070.0	116070.0	116374.1	116374.3
8	116081.7	116081.8	116384.6	116385.0B
9	116094.9	116095.0		116396.9B
10	116109.2	116109.1		
11	116126.6	116125.3		
12		116142.8		

References:

The resolution absorption studies of the $b^1\Pi_u \leftarrow X^1\Sigma_g^+$ system of nitrogen, P.K. Carrol and C.P. Collins, Can. J. Phys. **47**, 563-589 (1969).