

The term Values of the $B(v) \ ^3\Sigma_u^-$ Level of $^{16}\text{O}_2$, cm^{-1}

N	B(9) level						B(10) level					
	J	F ₁	J	F ₂	J	F ₃	J	F ₁	J	F ₂	J	F ₃
0	1	54619.43					1	55048.37				
2	3	54623.93	2	54627.35	1		3	55052.59	2	55056.64	1	
4	5	54633.14	4	54635.53	3		5	55061.40	4	55063.48	3	
6	7	54647.47	6	54649.80	5		7	55075.20	6	55077.12	5	
8	9	54667.01	8	54669.37	7		9	55093.77	8	55096.07	7	
10	11	54691.69	10	54694.07	9		11	55117.43	10	55119.81	9	
12	13	54721.57	12	54724.00	11		13	55146.03	12	55148.49	11	
14	15	54756.59	14	54759.38	13		15	55179.54	14	55182.13	13	
16	17	54796.72	16	54799.27	15	54797.75	17	55217.98	16	55220.79	15	
18	19	54841.97	18	54844.56	17	54843.13	19	55261.25	18	55264.20	17	55262.75
20	21	54892.25	20	54895.08	19	54893.69	21	55309.48	20	55312.45	19	55310.92
22	23	54947.75	22	54950.44	21	54949.06	23	55362.45	22	55365.60	21	55364.32
24	25	55008.31	24	55010.96	23	55009.77	25	55420.24	24	55423.49	23	55422.30
26	27	55073.69	26		25		27	55482.71	26	55486.10	25	55484.87
28	29	55144.03	28	55147.56	27		29	55549.84	28	55553.20	27	55552.08
30	31	55219.40	30	55222.78	29	55222.12	31	55621.60	30	55625.08	29	
32							33	55697.91	32	55701.58	30	55700.85

N	B(11) level						B(12) level					
	J	F ₁	J	F ₂	J	F ₃	J	F ₁	J	F ₂	J	F ₃
0	1	55436.30					1	55781.701				
2	3	55440.33	2	55442.84	1		3	55785.252	2	55787.958	1	55786.427
4	5	55448.85	4	55451.12	3		5	55793.083	4	55795.845	3	55794.089
6	7	55462.07	6		5	55480.35	7	55805.365	6	55808.189	5	55806.495
8	9	55479.65	8	55481.90	7		9	55822.094	8	55825.020	7	55823.413
10	11	55502.10	10	55504.55	9		11	55843.254	10	55846.306	9	55844.794
12	13	55529.24	12	55531.86	11		13	55868.843	12	55872.037	11	55870.614
14	15	55561.14	14	55563.91	13		15	55898.836	14	55902.158	13	55900.861
16	17	55597.62	16	55600.43	15	55598.86	17	55933.165	16	55936.633	15	55935.488
18	19	55638.83	18	55642.01	17		19	55971.835	18	55975.476	17	55974.420
20	21	55684.47	20	55687.91	19	55686.49	21	56014.715	20	56018.540	19	56017.616
22	23	55734.78	22	55738.28	21	55736.94	23	56061.820	22	56065.764	21	56064.906
24	25	55789.76	24	55793.26	23		25	56113.10	24	56117.25	23	56116.61
26	27		26		25		27	56168.47	26		25	
28	29	55912.30	28	55916.25	27	55915.74	29	56227.83	28	56232.54	27	56232.03
30	31		30		29		31		30		29	
32	33		32		31		33		32		30	

N	B(13) level						B(14) level					
	J	F ₁	J	F ₂	J	F ₃	J	F ₁	J	F ₂	J	F ₃
0	1	56082.078					1	56336.366				
2	3	56085.432	2	56088.576	1	56087.065	3	56339.538	2	56343.268	1	56341.781
4	5	56092.744	4	56095.926	3	56094.175	5	56346.247	4	56350.027	3	56348.282
6	7	56104.146	6	56107.452	5	56105.725	7	56356.690	6	56360.639	5	56358.921
8	9	56119.684	8	56123.117	7	56121.500	9	56370.923	8	56375.067	7	56373.482
10	11	56139.340	10	56142.928	9	56141.458	11	56388.921	10	56393.280	9	56391.898
12	13	56163.090	12	56166.841	11	56165.539	13	56410.665	12	56415.261	11	56414.099
14	15	56190.910	14	56194.830	13	56193.705	15	56436.099	14	56440.985	13	56440.038
16	17	56222.741	16	56226.869	15	56225.922	17	56465.192	16	56470.330	15	56469.661
18	19	56258.550	18	56262.868	17	56262.134	19	56497.843	18	56503.304	17	56502.899
20	21	56298.279	20	56302.787	19	56302.296	21	56534.003	20	56539.799	19	56539.661
22	23	56341.837	22	56346.607	21	56346.300	23	56573.623	22	56579.738	21	56579.892
24	25	56389.199	24	56394.229	23	56394.102	25	56616.541	24	56623.015	23	56623.517
26	27	56440.165	26	56445.440	25	56445.564	27	56662.700	26	56669.641	25	56670.409
28	29	56494.65	28	56500.28	27	56500.82	29	56711.83	28	56719.17	27	56720.44
30	31		30		29		31	56764.01	30	56771.85	29	56773.53
32	33		32		31		33		32		30	

N	B(15) level						B(16) level					
	J	F ₁	J	F ₂	J	F ₃	J	F ₁	J	F ₂	J	F ₃
0	1	56545.548					1	56712.920				
2	3	56548.486	2	56553.163	1	56551.766	3	56715.646	2	56721.851	1	56720.597
4	5	56554.569	4	56559.294	3	56557.555	5	56721.067	4	56727.297	3	56725.661
6	7	56563.971	6	56568.911	5	56567.255	7	56729.392	6	56735.861	5	56734.363
8	9	56576.791	8	56582.025	7	56580.555	9	56740.693	8	56747.291	7	56746.318
10	11	56592.980	10	56598.524	9	56597.318	11	56754.984	8	56748.090E	9	56761.409
12	13	56612.520	12	56618.434	11	56617.525	13	56772.215	10	56762.574	11	56779.566
14	15	56635.381	14	56641.666	13	56641.104	15	56792.393	12	56761.406E	12	56778.313E
16	17	56661.478	16	56668.183	15	56667.968	17	56815.233	14	56800.879	13	56800.704
18	19	56690.743	18	56697.882	17	56698.067	19	56840.903	16	56824.387	15	56824.743
20	21	56723.069	20	56730.704	19	56731.302	21	56869.159	18	56850.633	17	56851.617
22	23	56758.392	22	56766.535	21	56767.602	23	56899.939	20	56879.523	19	56881.142
24	25	56796.511	24	56805.434	23	56806.854	25	56933.030	22	56910.865	21	56913.338
26	27	56837.399	26	56846.758	25	56848.978	27	56968.366	24	56944.31	23	56947.650
28	29	56880.71	28	56890.66	27	56893.37	29	57005.53	26	56979.575	25	56983.78
30	31	56926.49	30	56936.95	29	56940.30	31	57044.58	28	57019.76	27	57020.94
32	33	56974.46	32	56985.84	30	56990.11	33	57085.15	30	57056.91	29	57064.97
34							35	57126.88	32	57098.77	31	

N	B(17) level					
	J	F ₁	J	F ₂	J	F ₃
0	1	56843.459				
2	3	56845.989	2	56854.442	1	56853.304
4	5	56850.738	4	56859.302	3	56857.752
6	7	56857.981	6	56866.846	5	56865.354
8	9	56867.790	8	56877.086	7	56875.925
10	11	56880.139	10	56889.972	9	56889.281
12	13	56895.009	12	56905.414	11	56905.346
14	15	56912.354	14	56923.318	13	56923.989
16	17	56932.059	16	56943.459	15	56945.080
			16	56951.633E		
18	19	56954.074	18	56965.551	17	56968.408
			18	56971.330E		
20	21	56978.193	20	56988.699	19	56992.300
22	23	57004.341	22	57020.161	21	57023.085
			22	57012.625E		
24	25	57032.406	24	57048.668	23	57051.91
26	27	57062.20	26	57078.90	25	57079.65

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