

The $\beta(v,0)$ bands [$B^2\Pi_r - X^2\Pi_r$], cm^{-1} .

J	$\beta(6,0)$ band [B(6)-X(0)]							
	R ₁₁		P ₁₁		Q ₁₁	R ₂₂	P ₂₂	Q ₂₂
	ee	ff	ee	ff				
0.5	51409.45				51406.40			
1.5	51409.50		51401.380		51404.43	51328.60		51323.24
2.5	51408.26		51396.073		51401.14	51327.48	51314.63	51320.02
3.5	51405.68		51389.434			51325.07	51308.00	51315.49
4.5	51401.78		51381.476			51321.37	51299.98	51309.61
5.5	51396.04	51396.17	51372.242			51316.35	51290.68	51302.49
6.5	51390.04	51390.20	51361.656			51310.05	51280.11	
7.5	51382.22	51382.37	51349.73	51349.87		51302.43	51268.25	
8.5	51373.07	51373.24	51336.55	51336.71		51293.45	51255.04	
9.5	51362.68	51362.86	51321.96	51322.13		51283.22	51240.54	
10.5	51350.96	51351.17	51306.22	51306.44		51271.63	51224.71	
11.5	51337.92	51338.16	51289.09	51289.25		51258.78	51207.59	
12.5	51323.62	51323.84	51270.09	51270.93		51244.58	51189.14	
13.5	51307.98	51308.25	51251.01	51251.21		51229.06	51169.37	
14.5	51291.11	51291.34	51229.98	51230.23		51212.26		
15.5	51273.02	51273.20	51207.65	51208.01		51194.08		
16.5	51253.40	51253.74				51174.60		
17.5						51153.80		

J	$\beta(7,0)$ band [B(7)-X(0)]							
	R ₁₁	P ₁₁	R ₁₂	R ₂₂	P ₂₂	R ₂₁	P ₂₁	Q ₂₂
0.5	52349.10B							
1.5	52349.10B	52340.89	52229.66B	52256.10		52376.02B		52248.32
2.5	52347.82B	52335.62	52227.72B	52259.00B	52239.71	52379.15	52359.86B	52247.50
3.5	52345.38	52329.07	52224.89B	52261.59B	52235.46	52381.97B	52355.93	52246.45B
4.5	52341.51	52321.19		52261.15	52231.49	52381.97B	52352.40	52246.16
5.5	52336.25	52311.93		52256.96	52227.11B	52378.51B	52348.51B	
6.5	52329.66B	52301.38B		52250.68B	52219.86		52341.92	
7.5	52321.77B	52289.48		52243.16	52208.83			
8.5	52312.51B	52276.18		52234.08B	52195.82			
9.5	52301.91	52261.59B		52223.43B	52181.32			
10.5					52165.37			
11.5				52198.70	52148.06			

J	$\beta(9,0)$ band [B(9)-X(0)]							
	R ₁₁		P ₁₁		Q ₁₁	R ₂₂	P ₂₂	Q ₂₁
	<i>ee</i>	<i>ff</i>	<i>ee</i>	<i>ff</i>				
0.5	54186.39B				54183.47			
1.5	54186.39B		54178.45		54181.42	54110.13		54104.90
2.5	54184.97		54173.08		54177.99	54108.82	54096.30	54101.53
3.5	54182.19		54166.35		54173.22B	54106.16	54089.48	54096.78
4.5	54178.05		54158.22			54102.18	54081.30	54090.65
5.5	54172.54		54148.74			54096.74	54071.77	54083.24
	54173.22							
6.5	54165.63		54137.93			54089.97	54060.92	54074.38
	54166.16							
7.5	54157.42		54125.71			54081.83	54048.59	54064.17
	54157.91		54126.43					
8.5	54147.89		54112.13			54072.38	54034.96	54052.65
			54112.59					
9.5	54136.98		54097.23			54061.40	54019.98	
			54097.70					
10.5	54124.67	54124.86	54081.03			54049.16	54003.66	
11.5	54111.01	54111.21	54063.43			54035.52	53985.82	
12.5	54095.99	54096.24	54044.42	54044.61		54020.49	53966.75	
13.5	54079.61	54079.85	54024.09	54024.30		54004.07	53946.29B	
14.5	54061.88	54062.11	54002.38	54002.62		53986.27	53924.39B	
15.5	54042.75	54043.01	53979.31	53979.56		53967.11	53901.11B	
16.5	54022.29	54022.56	53954.88	53955.15		53946.29B	53876.44B	
17.5	54000.44	54000.74	53929.07	53929.36		53924.39B	53850.53	
18.5	53977.26	53977.56	53901.93	53902.23		53901.11B	53823.03	
19.5	53952.67	53953.02	53873.47	53873.76		53876.44B		
20.5	53926.75	53927.10	53843.57	53843.91		53850.27		
21.5	53899.55	53899.87				53822.60		
22.5	53870.88	53871.18						
23.5	53840.87	53841.28						

$\beta(10,0)$ band [B(10)-X(0)]										
J	R ₁₁		Q ₁₁	P ₁₁		R ₂₂		Q ₂₂	P ₂₂	
	<i>ee</i>	<i>ff</i>		<i>ee</i>	<i>ff</i>	<i>ee</i>	<i>ff</i>			
0.5	55093.58B		55090.63							
1.5	55093.58B		55088.56	55085.43B		55018.69		55013.46		
2.5	55092.19		55085.43B	55080.06B		55017.28B		55010.07	55004.98	
3.5	55073.38B			55089.45		55014.68B		55005.31B	54998.59B	
4.5	55085.43B			55065.34B		55010.68		54999.24	54989.84	
5.5	55080.06B			55055.98B		55005.31B			54980.17B	
6.5	55073.38B			55045.30B		54998.59B			54969.42	
7.5	55065.34B			55033.19B		54990.58			54957.20	
8.5	55055.98B			55019.77		54981.24			54943.62	
9.5	55045.30B			55005.31B		54970.58			54928.33B	
10.5	55033.19B			54989.04		54958.73			54912.76B	
11.5	55019.77B								54895.03	
12.5	55005.31B									
13.5										
14.5	54975.40									
15.5	54959.11									
16.5	54943.06			54868.47		54866.72	54865.87			
17.5	54928.33B			54845.46		54851.75b	54850.18B			
18.5	54916.10	54916.64		54822.73		54840.41B	54837.69			
19.5	54906.78	54908.51B		54801.33B		54835.90B	54831.30			
20.5	54900.78	54904.52		54782.44	54782.98	54838.60	54831.91B			
21.5	54900.31	54906.07		54766.46	54768.19	54846.93B	54839.17			
22.5	54905.48	54912.76B		54753.77	54757.38B	54858.72	54849.72B			
23.5	54914.40	54922.94		54746.38B	54752.35B	54872.44B	54862.68B			
24.5	54925.79	54935.26		54745.16	54752.35B	54887.70	54876.84			
25.5	54938.64	54949.06		54747.54B	54755.82B	54903.88	54892.12			
26.5	54952.56	54963.88		54752.35B	54762.58B	54920.79	54908.51B			
27.5	54967.29	54979.46		54758.87	54768.68B					
28.5	54982.67	54995.65		54765.74B	54776.88					
29.5	54998.05	55012.23		54773.76	54785.60B					
30.5	55014.68B	55028.99								

J	R ₂₁		P ₂₁	
	<i>ee</i>	<i>ff</i>	<i>ee</i>	<i>ff</i>
16.5	54999.655	54998.585B		
17.5	54986.108	54984.414		
18.5	54976.434	54973.476B		
19.5	54973.476B	54968.764		
20.5	54842.649B	54839.926	54977.943	54971.462
21.5	54833.141	54828.429	54988.008	54980.165B
22.5	54831.000	54824.319B	55001.535	54992.438
23.5	54834.361	54826.415	55017.283B	55007.133
24.5	54841.225	54832.195	55034.369	55023.347
25.5	54850.182B	54840.408B	55052.527	55040.571
26.5	54860.769B	54849.721B	55071.456	55058.658
27.5	54872.438B	54860.769B		

$\beta(11,0)$ band [B(11)-X(0)]								
J	R ₁₁		P ₁₁		Q ₁₁	R ₂₂	Q ₂₂	P ₂₂
	<i>ee</i>	<i>ff</i>	<i>ee</i>	<i>ff</i>				
0.5	55963.26				55960.26			
1.5	55963.15		55955.26		55958.21	55889.486		55884.376
2.5	55961.68		55949.89			55888.134	55875.858B	55880.884
3.5	55958.94		55943.11			55885.434	55868.953B	55875.858B
4.5	55954.76		55934.99			55881.345	55860.710B	55869.910
5.5	55949.22		55925.50			55875.858B	55851.102B	
6.5	55942.32		55914.64			55868.953B	55840.076B	
7.5	55934.02		55902.40			55860.710B	55827.733B	
8.5	55924.36		55888.81			55851.102B	55813.977B	
9.5	55913.34		55873.83			55840.076B	55798.926	
10.5	55900.93		55857.50			55827.733B	55782.457	
11.5	55887.15		55839.76			55813.977B	55764.560	
12.5	55871.99		55820.67			55798.802	55745.357	
13.5	55855.44		55800.22			55782.096	55724.673	
14.5	55837.51		55778.32	55778.57		55763.999		
15.5	55818.20	55818.43	55755.09	55755.38		55744.069		
16.5	55797.48	55797.77	55730.54	55730.70				
17.5			55704.52	55704.79				

$\beta(12,0)$ band [B(12)-X(0)]							
J	R ₁₁	Q ₁₁	P ₁₁	R ₁₂	R ₂₂	Q ₂₂	P ₂₂
0.5	56742.91	56739.28					
1.5	56744.08B	56737.88	56734.22		56656.34	56649.46	
2.5	56744.08B	56735.64	56729.54	56623.99B	56657.45B	56647.75	56640.84
3.5	56743.37	56732.49	56723.82B	56623.14B	56657.45B	56645.32	56635.70
4.5	56741.60	56728.37	56717.42	56620.11	56656.86B	56641.81B	56629.85
5.5	56738.82		56709.93	56617.40	56655.18	56637.94	56623.14B
6.5	56734.95		56701.48	56612.94	56652.46	56632.81	56615.57
7.5	56729.96		56691.99	56607.05B	56648.60	56626.66	56607.05B
8.5	56723.82B		56681.45	56600.21	56643.50		56597.46
9.5	56716.30		56669.76		56637.07		56586.73
10.5	56707.51		56656.86B		56629.24		56574.78
11.5	56697.35		56642.74		56619.88		56561.50
12.5	56685.73		56627.27		56609.06		56546.80
13.5	56672.62		56610.42		56596.56		56530.65
14.5	56657.99		56592.11		56582.42		56512.94
15.5	56641.81B		56572.32		56566.64		56493.62
16.5	56623.99B		56551.01		56549.17		56472.66
17.5	56604.57		56528.11		56529.93		56450.00
18.5	56583.53		56503.66		56508.88		
19.5	56560.91		56477.58		56486.33		
20.5	56536.67						

$\beta(14,0)$ band [B(14)-X(0)]							
J	R ₁₁	Q ₁₁	P ₁₁	R ₂₂	Q ₂₂	P ₂₂	R ₂₁
0.5	58542.03B	58538.97					
1.5	58542.03B	58536.99	58533.96B	58471.05	58465.72		
2.5	58540.78	58533.96B	58528.64	58469.94	58462.47	58457.12	58589.76w
3.5	58538.20	58529.06B	58521.99	58467.49	58457.89	58450.42	58588.71w
4.5	58534.31		58514.05	58463.70	58452.11B	58442.42	58584.73w
5.5	58529.06	58515.95	58504.77	58458.60	58444.82	58433.09	58579.76w
6.5	58522.48		58494.18	58452.11	58436.25	58422.45	58573.55w
7.5	58514.55		58482.25	58444.31	58426.29	58410.45	58566.64w
8.5	58505.27		58469.02	58435.11	58415.06	58397.12	58558.52w
9.5	58494.65		58454.33	58424.53		58382.40B	58549.12w
10.5	58482.61		58438.40B	58412.57		58366.39	
11.5	58469.35		58421.05B	58399.20		58348.95	
12.5	58454.49		58402.36B	58384.42		58330.13	
13.5	58438.40B		58382.40B	58368.22		58309.92	
14.5	58421.04B		58360.94	58350.57		58288.40B	
15.5	58402.36B		58338.13	58331.55		58265.27B	
16.5	58382.40B		58313.91	58311.05		58240.86B	
17.5	58360.94B		58288.30B	58289.15		58214.90	
18.5	58338.13B		58261.43	58265.27B		58187.57	
19.5			58232.89	58240.86B		58158.92	
20.5			58203.59			58128.81	

B: Blended lines.

References:

VUV Fourier transform spectroscopy of the $\delta(0,0)$ and $\beta(7,0)$ bands of NO, J.E. Murray, K. Yoshino, J.R. Esmond, W.H. Parkinson, Y. Sun, A. Dalgarno, A.P. Thorne, and G. Cox, *J. Chem. Phys.*, **101**, 62-79 (1994).

The Application of a VUV Fourier Transform Spectrometer and Synchrotron Radiation Source to Measurements of: I. The $\beta(9,0)$ Band of NO, K. Yoshino, J. R. Esmond, W. H. Parkinson, A. P. Thorne, J. E. Murray, R. C. M. Learner, G. Cox, A. S. -C. Cheung, K. W.-S. Leung, K. Ito, T. Matsui, and T. Imajo, *J. Chem. Phys.* **109**, 1751-1757 (1998).

The application of a VUV Fourier transform spectrometer and synchrotron radiation source to measurements of: IV. The $\beta(6,0)$ and $\gamma(3,0)$ bands of NO, A. S-C. Cheung, D. H-Y. Lo, K. W-S. Leung, K. Yoshino, A. P. Thorne, J. E. Murray, K. Ito, T. Matsui, and T. Imajo, *J. Chem. Phys.* **116**, 155-161 (2002).

The Application of a VUV Fourier Transform Spectrometer and Synchrotron Radiation Source to Measurements of: V. The $\beta(11,0)$ band of NO, J. Rufus, K. Yoshino, A. P. Thorne, J. E. Murray, T. Imajo, K. Ito and T. Matsui, *J. Chem. Phys.* **117**, 10621-10626 (2002).

Erratum: The Application of a VUV Fourier Transform Spectrometer and Synchrotron Radiation Source to Measurements of NO [*J. Chem. Phys.* **115**, 3719 (2001); **116**, 155 (2002); **117**, 10621 (2002); **119**, 8373 (2003)], A. P. Thorne, J. E. Murray, K. Yoshino, A. S-C. Cheung, and T. Imajo, *J. Chem. Phys.* **122**, 17990 (2005).

The Application of a VUV Fourier transform spectrometer and synchrotron radiation source to measurements of bands of NO: VII. The final report, K. Yoshino, A. P. Thorne, J. E. Murray, A. S-C. Cheung, A. L. Wong and T. Imajo, *J. Chem. Phys.* , (2006).