

**Integrated cross-sections of the NO bands  $\delta(v,0)$  with  $v=0,1,2,3$  in units of  $10^{-17}\text{cm}^2\text{cm}^{-1}$ . Lines followed by b are blended, and intensities have been apportioned according to branching ratios.**

$J$	$\delta(0,0)$ band [C(0)-X(0)]							
	R <sub>11</sub>		P <sub>11</sub>		R <sub>12</sub>		P <sub>12</sub>	
	$ee$	$ff$	$ee$	$ff$	$ee$	$ff$	$ee$	$ff$
0.5	1.37							
1.5	1.71			0.61				
2.5	2.17b			0.88b				
3.5	2.35b			1.34				
4.5	1.33	1.41		1.65		0.25	0.34	0.18
5.5	1.51	1.46		2.29		0.49	0.59	0.31
6.5	1.59	1.69	1.24	1.34	0.61	0.62	0.42	0.19
7.5	1.94b	1.93	1.35b	1.47b	0.63b	0.70	0.44	0.31
8.5	1.63	1.62	1.47b	1.45b	0.58	0.71b	0.47b	0.41b
9.5	1.65b	1.55	1.37	1.69b	0.47	0.54	0.49b	0.51b
10.5	1.44b	1.37	1.38b	1.53b	0.43b	0.52	0.47b	0.51
11.5	1.37b	1.49	1.26b	1.54b	0.32	0.37	0.44b	0.50b
12.5	1.15	1.30	1.10b	1.29b	0.26b	0.34	0.39b	0.39
13.5	1.07	1.14	0.91	1.04b	0.22	0.31	0.29b	0.29
14.5	0.95	0.95	0.86	0.87	0.20	0.22	0.25b	0.22
15.5	0.83	1.12	0.80	0.79	0.17	0.21	0.22b	0.15
16.5	0.75	0.73	0.68	0.72	0.13	0.16	0.16b	0.12
17.5	0.54	0.66	0.59	0.51				
18.5	0.34	0.52	0.46b	0.41				
19.5			0.37b	0.13				
20.5			0.27					

  

$J$	R <sub>22</sub>		P <sub>22</sub>		R <sub>21</sub>		P <sub>21</sub>	
	$ee$	$ff$	$ee$	$ff$	$ee$	$ff$	$ee$	$ff$
1.5					0.30			
2.5	0.67		0.51b		0.47	0.66		
3.5	0.59	0.62b	0.60b		0.88	0.93	0.70	
4.5	0.70b	0.76b	1.11		1.08b	1.08	0.63b	0.72
5.5	0.87b	0.77	0.69b	0.72b	1.12	1.12	0.68	1.00b
6.5	0.91	0.90	0.78	0.76b	1.13	1.13	0.87	1.18b
7.5	0.97b	0.93	0.81b	0.79	1.18	1.01	0.98b	1.19
8.5	0.93	1.03	0.87	0.95	1.19	1.03b	1.00b	1.22
9.5	0.84	0.92	0.96b	1.07	1.10	0.97	0.93	1.28b
10.5	0.78b	0.94b	0.87	1.12	1.02	0.82	0.83	1.04
11.5	0.71	0.73	0.83	1.04	0.78	0.63	0.75	0.88
12.5	0.72b	0.65b	0.77	0.95	0.65	0.55	0.70	0.78
13.5	0.62	0.69b	0.70	0.89	0.52	0.46	0.67	0.71
14.5	0.61b	0.60	0.67	0.73	0.48	0.39	0.65b	0.63
15.5	0.48b	0.49	0.57	0.57	0.38	0.34	0.58b	0.60
16.5	0.44	0.32	0.44	0.47b	0.29	0.22	0.50b	0.49
17.5	0.38	0.25	0.37b	0.29	0.23	0.21	0.46b	0.36
18.5	0.35	0.21			0.21	0.19	0.37	0.31
19.5					0.37b			

$J$	$\delta(1,0)$ band [C(1)-X(0)]							
	R <sub>11</sub>		P <sub>11</sub>		Q <sub>11</sub>		R <sub>12</sub>	
	<i>ee</i>	<i>ff</i>	<i>ee</i>	<i>ff</i>	<i>ee</i>	<i>ff</i>	<i>ee</i>	<i>ff</i>
0.5	2.01b			1.62				
1.5	3.78			1.31b			1.14b	
2.5	4.95			3.25			1.90b	0.98
3.5	6.95b			4.45			3.31b	1.82
4.5	6.43b	3.77		6.08b		2.61b	1.45b	2.19
5.5	5.00	3.47b		8.66b		3.16b	1.28	2.50
6.5	3.32b	3.90	3.65	2.83		1.78	1.22b	1.29
7.5	3.39	3.99	4.05b	3.20		1.44b	2.42b	1.31
8.5	4.01	4.96b	3.78b	2.58		1.36	1.60	1.11
9.5	3.43	4.32	3.36b	3.13b		1.17	1.41	1.20b
10.5	3.36	3.68	3.29b	2.98b		1.14b	1.29	1.30b
11.5	3.12	3.55	2.99b	2.83b		0.84	1.00b	1.23
12.5	2.77	3.10	2.88b	2.75b		0.85	0.79	1.30
13.5	2.55	3.28b	2.52	2.83b		0.51	0.80	1.21b
14.5	2.26	2.75	2.38b	2.66b		0.51b	0.62	0.98b
15.5	1.94	1.93	1.73b	2.15b		0.44	0.28	
16.5	1.58	1.88	1.23b	1.36b		0.76	0.10	
17.5	1.39	1.30b	0.98b	1.20				
18.5	0.91	0.98b	0.52			0.36b		

  

$J$	R <sub>22</sub>		P <sub>22</sub>		Q <sub>22</sub>	R <sub>21</sub>		P <sub>21</sub>	
	<i>ee</i>	<i>ff</i>	<i>ee</i>	<i>ff</i>		<i>ee</i>	<i>ff</i>	<i>ee</i>	<i>ff</i>
0.5							1.54		
1.5	1.34				1.89		2.81		
2.5	0.62	1.49		2.65	1.27	1.98	1.76		2.77b
3.5	1.13	2.31b		3.35		2.98	1.69b		3.24b
4.5	1.91	1.73		3.87		1.67	2.46b	1.85	3.66
5.5	2.11	1.87b	1.87	2.13		2.58	2.42	2.78	2.26
6.5	2.16	2.35b	1.61	2.52		2.64	2.76	2.35	2.21
7.5	2.27	2.06	2.05	2.72		2.68	2.38	2.41	2.05
8.5	2.24	1.96b	1.90	2.37		2.91b	2.21	2.47	2.55b
9.5	2.17	2.37	2.00	2.12		1.99	1.62	2.05	1.38b
10.5	2.10b	3.33b	1.74b	1.88		2.07	1.86	1.80	1.63
11.5	1.90	2.08b	1.75b	1.90		1.78b	1.82b	1.42	1.09
12.5	1.85	1.76	1.35b	1.60		1.64	1.43	1.57	1.23b
13.5	1.70b	1.42	1.02b	1.22		1.46	1.06	0.91	0.74b
14.5	1.35b	1.20b	2.54	0.97b		1.26	0.91	0.73	0.55b
15.5	1.24	0.47b	1.05	1.22b		0.86	0.73	0.76	0.77b
16.5			1.06	1.21				0.73b	1.02
17.5			0.49b	0.69b				0.25	0.49b

J	$\delta(2,0)$ band [C(2)-X(0)]															
	R <sub>11</sub>		Q <sub>11</sub>		P <sub>11</sub>		R <sub>12</sub>		P <sub>12</sub>		R <sub>22</sub>		Q <sub>22</sub>		P <sub>22</sub>	
	ee	ff	ee	ff	ee	ff	ee	ff	ee	ff	ee	ff	ee	ff		
0.5	1.66		0.30													
1.5	2.29b		0.25							0.52	0.29b					
2.5	2.82				0.67b					0.73b	0.44		0.71			
3.5	3.06				1.65b					0.95	0.54		1.02b			
4.5	3.66				2.28					1.74	0.57		1.90b			
5.5	4.25				2.84				0.88	0.92	0.29b		2.18			
6.5	4.72				2.40				1.13	1.03	0.12b		2.32			
7.5	5.22				4.08				1.28	1.12			1.35	1.24		
8.5	2.73b	2.63b			2.31	2.28			1.35	1.23			1.49	1.32		
9.5	2.46	2.79b			2.32	2.50b		0.18b	0.20	1.35	1.26		1.42	1.34		
10.5	2.56b	2.60b			2.25	2.45b		0.23b	0.27	1.24	1.18		1.35	1.40		
11.5	2.41b	2.35b			2.22	2.43b		0.31	0.33	1.21b	1.13		1.33	1.31		
12.5	2.01b	2.14b			1.99	2.31b		0.47	0.31	1.03	1.05		1.14	1.15		
13.5	1.69b	2.00b			1.75	1.88		0.40	0.07	0.82b	0.97		1.09	1.05		
14.5	1.61b	1.87b			1.53	1.71				0.62	0.75		0.98	1.03		
15.5	1.19b	1.67			1.42b	1.54b				0.54	0.44		0.75	0.94		
16.5	1.08b	1.19b			1.27	1.14				0.49	0.36b		0.68	0.74b		
17.5	0.83	1.02			1.08	0.83				0.41	0.29		0.50b	0.68b		
18.5	0.73	0.93			0.99b	0.72b				0.28	0.15b		0.49b	0.49		
19.5	0.52	0.76			0.58	0.43b							0.33	0.35		
20.5	0.31	0.26			0.47b	0.27							0.29b	0.32b		
21.5					0.33								0.22b	0.22		

  

J	$\delta(2,0)$ band [C(2)-X(0)]						$\delta(3,0)$ band [C(3)-X(0)]							
	R <sub>21</sub>		P <sub>21</sub>		R <sub>11</sub>		P <sub>11</sub>		R <sub>22</sub>		Q <sub>22</sub>		P <sub>22</sub>	
	ee	ff	ee	ff	ee	ff	ee	ff	ee	ff	ee	ff	ee	ff
0.5						0.67								
1.5						1.40	0.88		0.72b	0.93				
2.5						2.06b	1.46		1.06b	0.57		0.69b		
3.5	0.77		0.15			2.38b	1.69		1.22b	0.30b		0.89		
4.5	0.87		0.50b			2.78	2.07		1.34b	0.27		1.35		
5.5	1.09		0.72			2.60	2.57b		1.43b			1.45		
6.5	0.65	0.65	1.31			3.08	2.64		1.58b			1.46		
7.5	0.83	0.72	0.90	0.87		2.57	2.73	0.78	0.90			1.63		
8.5	0.88	0.89	0.93b	0.99		2.99	3.04	0.82b	0.92b			1.38		
9.5	0.98	1.00	0.87	1.01b		2.35	2.17	0.72b	0.82b		0.77	0.93		
10.5	0.91	1.04	0.80	0.85		2.06	2.52	0.60b	0.89b		0.40	0.76		
11.5	0.86	0.98	0.73	0.76		2.00b	1.76	0.56	0.77		0.42	0.61		
12.5	0.76	0.87	0.61	0.64		1.62	1.68	0.34	0.40		0.50	0.48		
13.5	0.52	0.48	0.49	0.54b		1.30	1.50	0.49	0.52		0.45	0.41		
14.5	0.27	0.30	0.42b	0.44		0.88	1.28	0.20	0.27		0.21	0.35		
15.5	0.26	0.29	0.23	0.36		0.81	1.04	0.27	0.20		0.27	0.17		
16.5	0.16	0.08	0.19	0.30b		0.60b	0.43	0.17	0.24					
17.5	0.08		0.12	0.19			0.54	0.06	0.19					
18.5							0.50							

References:

*The Application of a VUV Fourier Transform Spectrometer and Synchrotron Radiation Source to Measurements of: II. The  $\delta(1,0)$  band of NO*, T. Imajo, 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. Ito and T. Matsui, *J. Chem. Phys.* **112**, 2251-2257 (2000).

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