ANALYSIS OF THE $C^2\Pi - X^2\Sigma^+$ (0,0) BAND OF AlO.

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In recent years the $C^2\Pi$ state of AlO has been the subject of some controversy. In 1994 Towle *et al.* [a] published the results and analysis of a high resolution study of the $C^2\Pi - X^2\Sigma^+$ (0,0) band. Later in 1994 Towle *et al.* [b] published a reanalysis of that data in combination more data from Singh and Sakena [c] The reanalysis yielded molecular constants for the $C^2\Pi$ state that were in agreement with those published in [a] to within experimental accuracy. Ito *et al.* [d] have reanalyzed the data from [c] and published a set of molecular constants that are markedly different from those of Towle *et al.* [a] These differences will be discussed.

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[a] J.P. Towle, A.M. James, O.L. Bourne and B. Simard, *J. Mol. Spectrosc.* **163** (1994) 300.
[b] J.P. Towle, A.M. James, O.L. Bourne, B. Simard, M. Singh and M.D. Sakena, *J. Mol. Spectrosc.* **167** (1994) 472.
[c] M. Singh and M.D. Sakena, *Can. J. Phys.* **61** (1983) 1347.
[d] N. Ito, H. Ito and K. Kuchitsu, *Chem. Phys. Lett.*, **276** (1997) 139.