

## ANALYSIS OF THE $\nu_6$ ASYMMETRIC NO STRETCH BAND OF NITROMETHANE

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The  $b$ -type band near  $1583\text{ cm}^{-1}$  has been assigned for  $m \leq 3$ ,  $K'_a \leq 10$ ,  $J' \leq 20$ . The ground state combination differences derived from these assigned levels were fit with the RAM36 program with an RMS deviation of  $0.0006\text{ cm}^{-1}$ . The upper state levels are split into multiplets by perturbations. A subset of the available upper state combination differences for  $m = 0$ ,  $K'_a \leq 7$ ,  $J' \leq 10$  were fit with the same program, but with rather poorer precision ( $0.01\text{ cm}^{-1}$ ) than for the ground state.