

THE  $\tilde{A} - \tilde{X}$  AND  $\tilde{B} - \tilde{X}$  ABSORPTIONS OF  $\text{NO}_3$  TRAPPED IN SOLID NEON

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Absorptions arising from the  $\tilde{A} - \tilde{X}$  transition of normal and isotopically substituted  $\text{NO}_3$  have been observed between 7500 and 9500  $\text{cm}^{-1}$ . Details of the spectra will be discussed and assignments will be proposed. Absorptions arising from the  $\tilde{B} - \tilde{X}$  transition of  $\text{NO}_3$ , with band origin near 15 000  $\text{cm}^{-1}$ , have also been observed for the normal species and two of its isotopologues which possess  $D_{3h}$  symmetry. As in the gas phase, the absorptions are broadened because of predissociation. The observed band structure corresponds closely with that reported for the gas-phase molecule.