THE $\tilde{A} - \tilde{X}$ AND $\tilde{B} - \tilde{X}$ ABSORPTIONS OF NO_3 TRAPPED IN SOLID NEON

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Absorptions arising from the $\tilde{A} - \tilde{X}$ transition of normal and isotopically substituted NO_3 have been observed between 7500 and 9500 cm^{-1}. Details of the spectra will be discussed and assignments will be proposed. Absorptions arising from the $\tilde{B} - \tilde{X}$ transition of NO_3, with band origin near 15 000 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.