FIRST ANALYSIS OF THE ν_5 BAND OF DNO_3 (DEUTERATED NITRIC ACID) IN THE 11 μm REGION

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The infrared spectrum of DNO_3 (deuterated nitric acid) was recorded at high resolution (0.0018 cm $^{-1}$) in the 800 -1400 cm $^{-1}$ region on the Bruker IFR 120 HR Fourier transform spectrometer of Wuppertal. The analysis of the ν_5 A-type band of DNO_3 centered at 887.656 cm $^{-1}$ was performed taking use of the ground state parameters achieved by Drouin et al. [a]. This band is perturbed by several resonances. [b]

[a] Drouin, Miller, Fry, Petkie, Helminger, Medvedev, J. Mol. Spectrosc. 236 (2006) 2934

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