

Abstract Submitted
for the OSS05 Meeting of
The American Physical Society

The Rotational Spectrum of H^{15}NO_3 MARK KIPLING, ASHLEY JONES, DOUGLAS PETKIE, Wright State University, IVAN MEDVEDEV, ATSUKO MAEDA, The Ohio State University, BRIAN DROUIN, Jet Propulsion Laboratory, PAUL HELMINGER, University of South Alabama — The millimeter and submillimeter rotational spectrum of the isotopic species of nitric acid, H^{15}NO_3 , is currently being analyzed. Many transitions in the ground and first four lowest vibrational states, ν_9 , ν_7 , ν_6 , and ν_8 , have been assigned and fit using a Watson-type Hamiltonian. We will describe the general characteristics of the nitric acid spectrum and compare the rotational and centrifugal distortion constants of each state with those of the normal species.

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Date submitted: 18 Mar 2005

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