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, $\nu_9$, $\nu_7$, $\nu_6$, and $\nu_8$, 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