THE $4^3\Pi_g$ STATE OF Na_2: VIBRATIONAL NUMBERING AND HYPERFINE STRUCTURE

GUENADIY LAZAROV, MARJATTA LYYRA, *Department of Physics, Temple University, Philadelphia, PA 19122, USA*; LI LI, *Department of Modern Applied Physics, Tsinghua University, Beijing, 100084 CHINA*; JOHN HUENNEKENS, *Department of Physics, Lehigh University, 16 Memorial Dr. East, Bethlehem, PA 18015, USA*.

The Na_2 $4^3\Pi_g$ state[a] has been studied by continuous wave Perturbation-Facilitated Optical-Optical Double Resonance (PFOODR) fluorescence excitation spectroscopy. The absolute vibrational numbering was determined by resolved fluorescence to the $a^3\Sigma_u^+$ state. The hyperfine splitting has been resolved and analyzed. The hyperfine constant b_F is reported.

[a] Y. Liu, J. Li, H. Chen, D. Chen, Li Li, and R. W. Field, to be submitted to J. Mol. Spectrosc.