

## PFI-ZEKE SPECTROSCOPY OF Be<sub>2</sub>O

I. O. ANTONOV, M. C. HEAVEN, *Department of Chemistry, Emory University, Atlanta, GA 30322.*

The PFI-ZEKE spectrum of Be<sub>2</sub>O<sup>+</sup> ion was recorded to obtain accurate ionization energy for Be<sub>2</sub>O and vibrational frequency data for Be<sub>2</sub>O<sup>+</sup>. A short progression of the bending mode was observed, which included bands involving odd changes in the vibrational quanta. This observation indicates that the ion and/or the intermediate state used in the excitation process deviate from D<sub>∞h</sub> symmetry.