

## HIGH RESOLUTION STUDY OF THE CONFORMERS OF 3-AMINOPHENOL. <sup>a</sup>

JENNIFER A. BARTELS, BRIAN BLASIOLE, TIMOTHY M. KORTER, and DAVID W. PRATT, *Department of Chemistry, University of Pittsburgh, Pittsburgh PA 15260.*

Extensive study of monosubstituted aromatic rings like phenol and aniline has prompted the investigation of molecules containing two different substituents, such as the aminophenols. The vibrationally resolved  $S_1 \leftarrow S_0$  electronic spectrum of 3-aminophenol exhibits two origin bands, separated by  $353 \text{ cm}^{-1}$ . A spectrum of each origin band was recorded at full rotational resolution. Analyses of these spectra show that the bands correspond to the *cis* and *trans* conformers of 3-aminophenol. Evidence for the identification of the conformers, which differ only in the position of the hydroxy hydrogen atom, will be discussed.

---

<sup>a</sup>Work supported by NSF.