

Supplementary Information

Non radiative processes in protonated aromatic azine, diazines and pyrimidine bases.

Gustavo A. Pino,¹ Géraldine Feraud,⁴ Michel Broquier,^{2,3} Gilles Grégoire,^{2,3} Satchin Soorkia,^{2,3} Claude Dedonder,⁴ Christophe Juvet⁴

1) Instituto de Investigaciones en Físico Química de Córdoba (INFIQC) CONICET – UNC. Dpto. de Fisicoquímica – Facultad de Ciencias Químicas – Centro Láser de Ciencias Moleculares – Universidad Nacional de Córdoba, Ciudad Universitaria, X5000HUA Córdoba, Argentina

2) Centre Laser de l'Université Paris Sud (CLUPS/LUMAT), Univ. Paris-Sud, CNRS, Institut d'Optique Graduate School, Univ. Paris-Saclay, F-91405 Orsay (France)

3) Institut des Sciences Moléculaires d'Orsay (ISMO), CNRS, Univ. Paris-Sud, Univ. Paris-Saclay, F-91405 Orsay (France)

4) Aix Marseille Université, CNRS, PIIM UMR 7345, 13397, Marseille, France

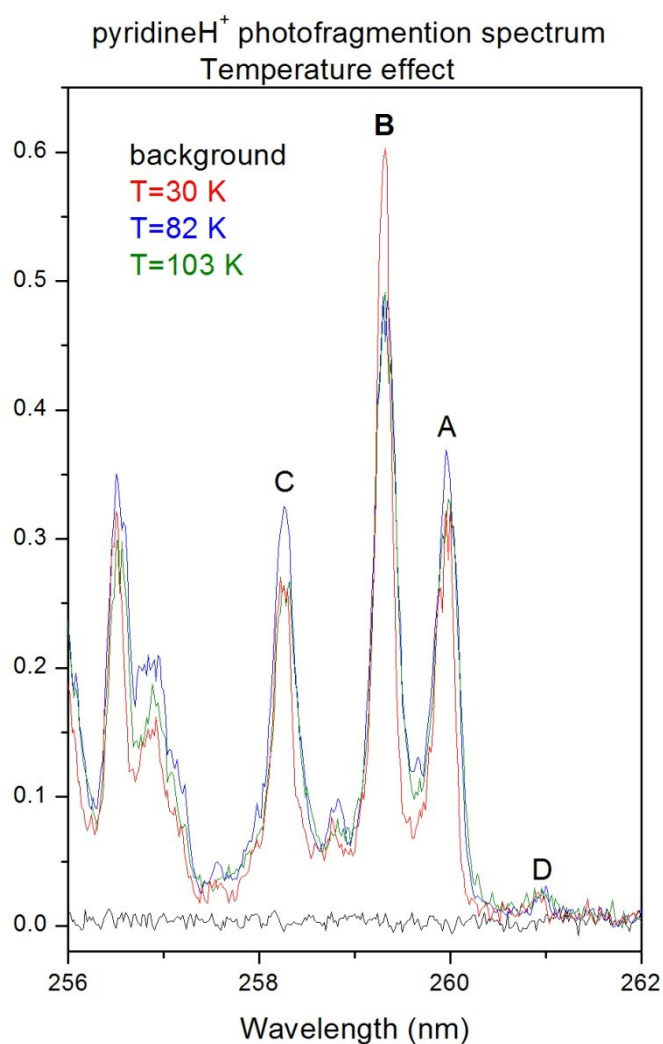


Figure 1 SI: Photofragmentation spectra of PyrH⁺ near the 0-0 transition, recorded at different ion trap temperatures, to show that the small band at 261 nm is not a hot band but the band origin denoted D in a previous work by Hansen *et al.*(ref. 30). The effect of temperature is to slightly increase the bandwidths, which corresponds to a broadening of the rotational contour.