STARK EFFECT STUDIES OF THE ELECTRONIC SPECTRUM OF 1-PHENYLPYRROLE AT HIGH RESOLUTION. CHARGE TRANSFER STATES?[a]

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We report Stark effect studies of the S_1-S_0 electronic spectrum of 1-phenylpyrrole (1PP) at high resolution. Analyses of these data yield values of the magnitudes and orientations of the permanent electric dipole moments of both electronic states. When combined with an earlier analysis of the vibrationally resolved spectrum,[b] the results provide new insights into the extent to which the S_1 state of 1PP is a charge transfer state.

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[b]J.A. Thomas, *et al.*, 64th International Symposium on Molecular Spectroscopy, TB06, 2009.