

THE FANTASIO SET-UP (II): HIGH RESOLUTION OVERTONE SPECTROSCOPY OF ACETYLENE CONTAINING VAN DER WAALS DIMERS

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We have used the CW-CRDS facility in the FANTASIO set-up described in the previous presentation to investigate acetylene-containing dimers formed in a supersonic expansion, in the 1.5 microns range. Ab initio calculations were also performed in some cases. The acetylene partners so far include argon^a, carbon dioxide^b and nitrous oxide^c. The results will be illustrated.

^aC. Lauzin, K. Didriche, P. Macko, J. Demaison, J. Liévin, and M. Herman, *J. Phys. Chem. A*, in press (2009).

^bC. Lauzin, K. Didriche, J. Liévin, M. Herman, and A. Perrin, *J. Chem. Phys.*, submitted (2009).

^cK. Didriche, C. Lauzin, P. Macko, M. Herman, and W.J. Lafferty, *Chem. Phys. Letters*, doi:10.1016/j.cplett.2008.12.037 (2008).