

HIGH RESOLUTION OVERTONE SPECTROSCOPY OF ACETYLENE-WATER VAN DER WAALS COMPLEXES

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The FANTASIO+ set-up^a (for 'Fourier trANsform, Tunable, diode and quadropole mAss spectrometers interfaced to a Supersonic expansION') was upgraded by implementing a pulsed nozzle and a liquid injector. Experiments were performed to test the new capacities of this improved set-up. The first results will be presented, among which the CW-cavity ring down spectra of the ¹²C₂H₂-H₂O and ¹²C₂H₂-D₂O absorption bands in the 2CH excitation range (1.5 μm). The first analyses of these spectra will be presented.

^aDidriche *et al.*, *Mol. Phys.* 2010, **108**, 2158-2164