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 quadrupole 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 $^{12}C_2H_2$-H_2O and $^{12}C_2H_2$-D_2O absorption bands in the 2CH excitation range (1.5 μm). The first analyses of these spectra will be presented.

[a] Didriche *et al.*, *Mol. Phys.* 2010, **108**, 2158-2164