

MICROSOLVATION STUDIES IN HELIUM NANODROPLETS

GERHARD SCHWAAB, MATIN KAUFMANN, DANIEL LEICHT, RAFFAEL SCHWAN, THEO FISCHER, DEVENDRA MANI, MARTINA HAVENITH, *Physikalische Chemie II, Ruhr University Bochum, Bochum, Germany*.

In bulk aqueous solutions the interactions between solute and solvent are still not fully understood. We apply spectroscopy in Helium nanodroplets to investigate solvation processes step by step (bottom up approach). Recently, the Bochum helium nanodroplet spectrometer has been equipped with a quantum cascade laser spanning the frequency ranges from 1000–1400, 1600–1700, and 2500–2600 cm^{-1} . First results with the extended setup will be presented.