

We will show our current experiments characterising electronic dynamics of microsolvated DNA bases in a coincidence spectrometer. DNA bases are expanded into vacuum through a pulsed valve modified for temperatures up to 300 C and form clusters with water or base pairs. The clusters are ionized in a femtosecond time-resolved pump-probe experiment and ion / electron pairs are detected in a coincidence spectrometer. A magnetic bottle photoelectron spectrometer based on permanent magnets allows efficient electron collection and permits data collection at the 100 Hz repetition rate of the pulsed valve.

Questions and discussions are welcome!