



**12<sup>th</sup> April 2012 - 15:15**  
Building 28c, seminar room

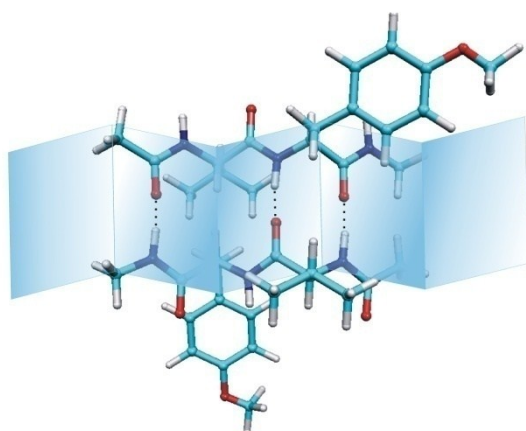
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### IR/UV spectroscopy in the gas phase: from isolated peptides to proton wires

Hydrogen bonds range among several biological and photoreactive systems. The application of mass and isomer selective combined IR/UV spectroscopy to isolated molecules and clusters in molecular beam experiments offer very powerful techniques to investigate e.g. driving forces to form secondary structures in peptides, processes of microsolvation or reactions in electronically excited states. An overview ranging from the analysis of peptide aggregates up to a detailed IR analysis of proton wires in electronically excited states of flavonoids is given.



Specific structural arrangements in peptides,  
analyzed as isolated aggregates in the gas  
phase by applying combined