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Ionization and fragmentation of biomolecules in an electrospray ionization source

The biological functions and physico-chemical properties of peptides and proteins are intrinsically linked to their tridimensional structure. To extract the intrinsic physical properties of those molecules without any interference with other molecules we transfer them into the gas phase and into vacuum. Therefore, we use electrospray ionization (ESI), a Nobel Prize-winning technique developed by John Fenn that enables us to study the molecules in a well-defined state and using mass spectrometric and trapping techniques to study them further with photons.
In this project you will investigate the ionization and fragmentation of biomolecules such as peptides and proteins using ESI and mass spectrometry.

Field

A2: Molecular sciences (application oriented)

DESY Place

Hamburg

DESY Division

FS

DESY Group

FS-BIG

Special Qualifications:

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