# Acousto-optic integrated microfluidic device for particle manipulation

Devices to handle small volumes in narrow streams is of great use in the serial x-ray crystallography experiments. We are developing a microfluidic device integrated with optical and acoustic components to facilitate the manipulation of flow as well as particles in the microchannel. We will offer the possibility for the student to work on the charecterisation of fluid flow for the fabricated microfluidic devices and optimization of acoustic and optical force parameters to manipulate the particles. The major part of the project would involve experimental work with some flow simulation work.

#### Field

A4: Development of experimental techniques (methodology oriented)

### **DESY Place**

Hamburg

## **DESY Division**

FS

## **DESY Group**

CFEL

## **Special Qualifications:**

Primary author: KELOTH, Anusha (FS-CFEL-1 (Forschung mit Photonen Experimente 1))