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# Pulse Characterization in Free-Electron Laser Facility FLASH

Free-electron lasers (FELs) offer short pulses ranging from X-Ray to THz spectral region which enable direct probing the dynamics of structural and electronic changes in complex materials. Ultrafast dynamics of such systems can be explored when FEL pulses are employed in a pump-probe scheme. To perform such experiments, precise characterization of laser pulses is required. The student will participate and work amongst other postdocs and senior scientists to gain experience in pulse characterization in FLASH FEL facility.

#### **Field**

A5: Lasers and optics (methodology oriented)

## **DESY Place**

Hamburg

#### **DESY Division**

FS

## **DESY Group**

FS-LA

## **Special Qualifications:**

Basic understanding of nonlinear optics, laboratory experience with lasers

Primary author: CANKAYA, Hueseyin (FS-LA (FLASH 2020+ flexible pump probe lasers))

Co-author: HARTL, Ingmar (FS-LA (Lasergruppe))