Contribution ID: 21 Type: not specified

Analysis of ultra-short XUV FEL pulses

In our group at FLASH (Free Electron Laser in Hamburg), we measure the temporal duration of the free-electron laser pulses by terahertz streaking. Photo-electrons are generated in the interaction of the XUV FEL pulse and noble gases like neon. If the ionization takes place in the presence of a THz field, the photo-electron spectrum is altered and contains information about the arrival time and the temporal duration of the FEL pulse. We use different analytical methods to evaluate our THz streaking data, therefore we are looking for an intern to join our effort in the experiment and data analysis and bring new ideas to analyze and visualize the data.

Field

B2: Data processing (software-oriented)

DESY Place

Hamburg

DESY Division

FS

DESY Group

FLASH

Special Qualifications:

Experience in programming, Atomic physics knowledge, Good team skills, Good English language skills

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