

Wavefront analysis using python

At-wavelength wavefront metrology techniques are used at FLASH to characterize the beam aberrations. Our group has a long expertise trajectory using Hartmann Wavefront Sensors in the Extreme Ultraviolet regime. These methods, in combination with focusing optics, are a fast approach to describe the focus in situ. However, for strongly focusing optics, or telescope-kind optics a specific treatment in the wavefront analysis is required. For the current project we are looking for a student with profound skills in programming and enthusiastic about optics and physics to join our efforts to develop a new tool base on Python for the analysis of complex wavefronts.

Field

B2: Data processing (software-oriented)

DESY Place

Hamburg

DESY Division

FH

DESY Group

FLASH-B

Special Qualifications:

Python knowledge, knowledge in physics and optics.

Primary author: RUIZ LOPEZ, Mabel (FS-FLASH-B (FLASH Photon Beamlines and Optics))