

Simulations for TW level, attosecond X-Rays pulses

Atto-second pulse generation is a major research direction for x-ray FELs worldwide. EuXFEL is currently undertaking a large simulation and engineering investigation as to assess eSASE as a way to generate the short pulses. The summer student will have the opportunity to learn the basics of the FEL process and the required training to perform simulations with the 3D simulation code GENESIS. This allows them to be part of the effort to generate Terawatt-level attosecond pulses in the hard x-ray regime.

Group

MXL

Project Category

B3. Research on accelerators

Special Qualifications

DESY Site

Hamburg

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