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# Modeling and analyzing resonant x-ray scattering from solids irradiated by XFEL pulses

The experiments at X-ray Free Electron Lasers (XFEL) enable to study matter at unique conditions. To fully exploit this potential, new methods must be developed to extract information that is not accessible with other x-ray sources. Within the project, students will have the opportunity to work with recent XFEL experimental data on resonant x-ray scattering from crystalline samples. Depending on their interests, the project can focus on theoretical modeling of the scattering signals, data analysis, or a combination of both.

### Group

FS-TUX

### **Project Category**

A6. Theory and computing

## **Special Qualifications**

#### **DESY Site**

Hamburg

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