



Contribution ID: 295

Type: **Presentation**

Observing structural dynamics of solid state matter with ultrafast electron diffraction

We have constructed an Ultrafast Electron Diffraction setup suitable for studying femtosecond time resolved structural dynamics in solid state matter. The setup has been characterized with respect to its spatial and temporal resolution capability, and measurements confirm that sub-300 femtosecond electron pulses with sufficient spatial resolution capability are achievable.

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Track Classification: Track A - Condensed Matter Physics and Material Science