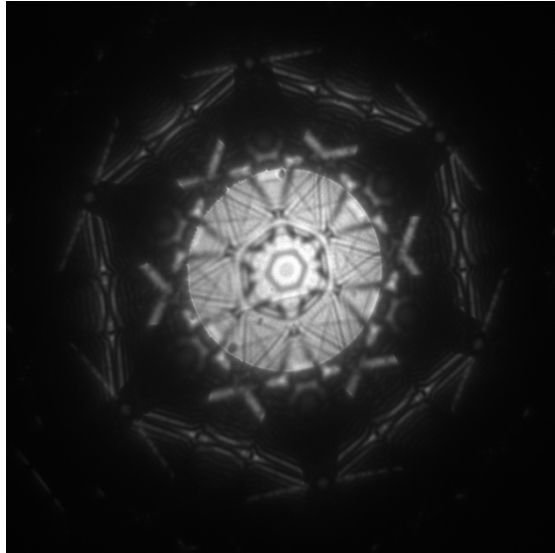


Blockvorlesung im Rahmen der Stiftungsdozentur Professor Bernhard Heß



Ultrafast imaging and diffraction techniques utilizing femtosecond electron, extreme ultraviolet and X-ray pulses

**July 24–28, 2017
Daily, 3–5 pm,
(DE. 0.133, Neubau Biologie)**

Specific topics will include

- Experimental techniques for the generation of ultrashort electron, extreme ultraviolet and X-ray pulses
- Pulse properties and pulse characterization
- Introduction to image formation and diffraction theory
- Time-resolved diffraction techniques
- Ultrafast transmission electron microscopy
- Ultrafast coherent diffractive imaging
- Coherent and incoherent free-electron/light interactions

Lecturer: Dr. Sascha Schäfer, IV. Physikalisches Institut, Universität Göttingen.

