



Thursday, May 21, 2026 

13:00 h 

RUN 0.35 



**Dr. Yiqi Fang**

FAU Erlangen, Institute of Laser Physics

## ***Shaping electron dynamics with structured light***

Laser-excited electron motions allow the investigation of fundamental physical phenomena with unprecedented resolution in time, space and energy. Structured light offers new opportunities to tailor and control the optical response of materials, far beyond the ability of conventional linearly or circularly polarized light. In this talk, I will show the physics and application of structured light when it interacts with bound electrons in atoms as well as when it interacts with electron pulses in free space.