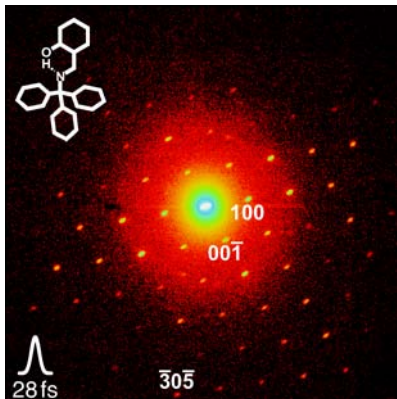


LMU München / MPI Quantenoptik /
Munich-Centre for Advanced Photonics (MAP)

1-2 Postdoc Positions

Attosecond Electron Microscopy



Pump-probe electron diffraction and microscopy with ultrashort pulses allow to directly observe the atoms and electrons in motion on their fundamental length and time scales (picometers and femtoseconds/attoseconds).

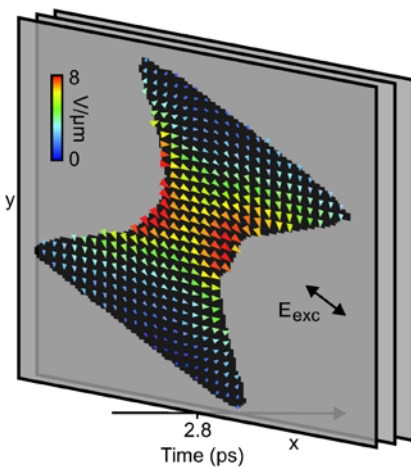
Our research group has recently developed an all-optical control approach for electron pulses (*Science* 352, 429, 2016) and with it succeeded in measuring sub-light-cycle electromagnetic phenomena (*Science* 353, 374, 2016).

Now we seek 1-2 postdoctoral researchers for merging these pulse concepts with state-of-the-art electron microscopy. This unique combination will open up a novel regime of understanding all kinds of fundamental processes in materials and biological matter from an atomistic perspective.

Our research is a joint effort between the ERC project DIVI (www.ultrafast-electron-imaging.de), the Max-Planck-Institute of Quantum Optics (www.attoworld.de) and LMU Munich's excellence cluster MAP (www.map.lmu.de). An electron microscope is currently being installed.

We require (a) scientific excellence, (b) leadership abilities and (c) deep understanding of electron microscopy and/or attosecond spectroscopy. (d) A profound background in ultrafast biology or material science is a bonus. Applications are accepted as one single PDF file that shall include (at least) a complete CV, a publication list and degrees with marks.

Please send your application (or further questions) via email to peter.baum@lmu.de.



Dr. Peter Baum
Ludwig-Maximilians-Universität München
Am Coulombwall 1, 85748 Garching
Tel: +49 89 289 14102
Email: peter.baum@lmu.de