

The Centre for Ultrafast Imaging (CUI)

Friday 10 October 2025 10:30 (15 minutes)

The Centre for Ultrafast Imaging (CUI) operates the DFG Cluster of Excellence “Advanced Imaging of Matter”, consisting of partners from UHH, DESY, the Max Planck Institute for Structural Dynamics, and the European XFEL. Together, we aim to understand and manipulate the processes that arise from arrangements of atoms and molecules in different forms of matter. We image quantum processes in atoms, molecules, and condensed matter at the ultimate length and time scales, to investigate ways to control these processes. This allows us to create matter with new functionalities, such as novel quantum materials and designer proteins. We benefit from Hamburg’s exceptional infrastructure, including our suite of light sources, and strong expertise in theoretical and experimental science that spans quantum technologies, ultrafast X-ray science, condensed matter, nanoscience, and macromolecular imaging.

Author: CHAPMAN, Hanry (Department of Physics, University of Hamburg)

Presenter: CHAPMAN, Hanry (Department of Physics, University of Hamburg)

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