

Holger KLEIN

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Current position:

Assistant professor at Université Grenoble Alpes, Grenoble, France.

Main activities: Electron crystallography using precession diffraction and 3D-ED techniques. Development of low-dose methods for use on beam sensitive materials like MOFs, small molecules, zeolites, biological crystals and application of these methods to solve and refine structures beam sensitive nano-crystals.

Chair of the « Special Interest Group on Electron Crystallography » of the European Crystallographic Association (September 2011 to August 2015)

Co-Chair of the « Special Interest Group on Electron Crystallography » of the European Crystallographic Association (August 2015 to August 2018)

Expert for the French microscopy network **METSA**

Chair of microsymposia :

European Crystallography Meeting 27, August 2012, Bergen, Norway,

European Crystallography Meeting 28, August 2013, Warwick, UK

International Union for Crystallography 25th conference, August 2021, Prague, Czech Republic

International Union for Crystallography 26th conference, August 2023, Melbourne, Australia

Education and experience:

1999 – 2001: Researcher at the European synchrotron ESRF, Grenoble, France
Phase contrast radiography, microtomography and X-ray topography

1997 – 1999: Post-doc at the Forschungszentrum Jülich, Germany.
Plastic deformation of quasicrystals and their approximants, characterization of structural defects by high resolution electron microscopy (HREM).

1997: PhD in materials sciences at INP Grenoble, France.
Local order in quasicrystalline phases, their approximants and liquids in the Al-Pd-Mn system

1995 : **Physics diploma, University of Karlsruhe, Germany**

1994: “Diplôme d’étude approfondie” in materials sciences, INP Grenoble, France

Bibliography:

52 articles in refereed international journals

Recent relevant articles:

- H. Klein, J. David, 2011, *Acta Cryst.* **A67**, 297-302
- H. Klein, 2013, *Z. Kristallogr.*, **228**, 35 – 42
- P. Zuo, C. Darie, C.V. Colin, and H. Klein, 2019, *Inorg. Chem.*, **58** (1), pp 81–92,
- S. Kodjikian and H. Klein, 2019, *Ultramicroscopy*, **200**, 12-19,
- H. Klein, S. Kodjikian, R. Philippe, L. Ding, C.V. Colin, C. Darie & P. Bordet, 2020, *Acta Cryst.* **B76**, 727-732,
- H. Klein, S. Kodjikian, E. Yörük & P. Bordet, 2022, *Symmetry*, **14**, 245.
- H. Klein, M. Bellavoine, D. Znaj, 2022, *J. of Alloys and Compounds*, **908**, 164525,