

Programme

Monday, May 12th 2025

09:00 – 09:30	Registration
09:30 – 09:40	Welcome
09:40 – 10:00	Introduction into PtyPy Benedikt Daurer - Diamond Light Source, Didcot, Oxfordshire, Bjoern Enders - Lawrence Berkeley National Laboratory, Berkeley
10:00 – 10:45	Basics of Ptychography I Pierre Thibault - University of Trieste, Trieste
10:45 – 11:15	Coffee Break
11:15 – 12:00	Basics of Ptychography II Pierre Thibault - University of Trieste, Trieste
12:00 – 13:30	Lunch Break
13:30 – 15:00	Hands-on tutorials I: Understanding the PtyPy parameter tree Benedikt Daurer - Diamond Light Source, Didcot, Oxfordshire, Bjoern Enders - Lawrence Berkeley National Laboratory, Berkeley
15:00 – 15:30	Coffee Break
15:30 – 16:30	Hands-on tutorials II: Working with experimental data Benedikt Daurer - Diamond Light Source, Didcot, Oxfordshire, Bjoern Enders - Lawrence Berkeley National Laboratory, Berkeley
16:30 – 17:45	SOLEIL Beamlines visits (HERMES, SEXTANTS, SWING)
18:00 – 19:00	Poster & networking session All speakers attending
19:30	Departure to altogether Dinner

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- 09:00 – 09:30 Ptychography at SOLEIL
Rachid Belkhou, Javier Pérez – *Synchrotron SOLEIL, Saint-Aubin*
- 09:30 – 10:00 Ptychography with High-Performance Computing Resources
Bjoern Enders - *Lawrence Berkeley National Laboratory, Berkeley*
- 10:00 – 10:30 Ptychography with Extremely Large Data
Yuri R. Tonin - *Institute for X-ray Physics, Georg-August-Universität, Göttingen*
- 10:30 – 11:00 *Coffee Break*
- 11:00 – 11:30 Introduction to ptychography-based tomography challenges
Julio Da Silva – *Institut Louis Néel, Grenoble*
- 11:30 – 12:00 Current and Future challenges in Ptychography and with PtyPy
Benedikt Daurer - *Diamond Light Source, Didcot, Oxfordshire*
Pierre Thibault - *University of Trieste, Trieste*
- 12:00 – 13:15 *Lunch Break + Group photo*
- 13:15 – 14:45 Hands-on tutorials III: Working with large data sets
Benedikt Daurer - *Diamond Light Source, Didcot, Oxfordshire*,
Bjoern Enders - *Lawrence Berkeley National Laboratory, Berkeley*
- 14:45 – 16:00 Hands-on tutorials IV: Write your own data loader / reconstruction engine
Benedikt Daurer - *Diamond Light Source, Didcot, Oxfordshire*,
Bjoern Enders - *Lawrence Berkeley National Laboratory, Berkeley*
- 16:00 – 17:00 Questions & answers with coffee