



## **Ptychography (PtyPy) Software Workshop 2023**

12<sup>th</sup>-13<sup>th</sup> January 2023

Provisional Agenda

### **Thursday, 12<sup>th</sup> January 2023**

9:00 – 9:30 AM: Welcome and Introduction

9:30 - 10:30 AM: Theory I: Projection-based ptychography algorithms

10:30 - 11:00 AM: Coffee break

11:00 - 12:00 PM: Theory II: Stochastic/gradient-based ptychography algorithms

12:00 – 1:00 PM: Lunch break

1:00 - 04:00 PM: Using PtyPy: Hands-on tutorials

### **Friday, 13<sup>th</sup> January 2023**

9:00 - 10:00 AM: High-performance ptychographic processing using GPU acceleration

10:00 - 10:30 AM: Coffee break

10:30 - 11:00 AM: Web-based interfaces for PtyPy

11:00 - 12:00 PM: PtyPy roadmap: Future upgrades

12:00 – 1:00 PM: Lunch break

1:00 - 04:00 PM: Using PtyPy: Hands-on tutorials

*All timings listed in GMT (UK time zone)*

Confirmed speakers:

- Dr. Andrew Maiden (University of Sheffield)  
- <https://www.sheffield.ac.uk/eee/people/academic-staff/andrew-maiden>
- Dr. Bjoern Enders (NERSC)  
- <https://www.nersc.gov/about/nersc-staff/data-science-engagement-group/bjoern-enders/>
- Dr. Benedikt Daurer (Diamond Light Source)  
- <https://www.diamond.ac.uk/Instruments/Imaging-and-Microscopy/J08/Staff/Daurer.html>