

European XFEL data workshop

Luca Gelisio, for the DATA department



Workshops and training material

The material presented from 2022 onward is available here .

In general, links to material relevant to you is available at https://www.xfel.eu/data_analysis .

Workshops and training material



> Organization > Scientific and Technical groups > Data Department > Data Analysis > **Workshops and meetings**

Workshops and meetings

[2025] European XFEL data workshop

[Link to event](#)

The aim of this event is to gather scientists interested in accessing and analyzing experimental data collected at European XFEL.

During the workshop, we will share information and provide tutorials on these topics.

We aim at leaving ample time for discussion, and we look forward for your input and feedback.

This meeting is part of the European XFEL Users' Meeting 2025.

[2024] Data management, analysis, and reduction at European XFEL

[2023] Data analysis at the European XFEL

Workshops and training material



The screenshot shows the homepage of the European XFEL data workshop. The header features the European XFEL logo and the text "European XFEL data workshop". Below the header, it says "20 January 2025 Online Europe/Berlin timezone". A search bar is on the right. A banner at the bottom of the header area says "Now happening: Data management plans 14:45 - 15:30". The main content area has a dark blue sidebar with links: "Overview", "Timetable", "Contribution List", "Other information & Poster session", and a "Contact" section with an email link. The main content area contains text about the workshop's aim, schedule, and contact information. At the bottom, there are icons for a timer (Starts 20 Jan 2025, 10:30), a location (Online Europe/Berlin), a poster (Poster), and navigation icons.

The aim of this event is to gather scientists interested in accessing and analyzing experimental data collected at European XFEL.

During the workshop, we will share information and provide tutorials on these topics.

We aim at leaving ample time for discussion, and we look forward for your input and feedback.

If you would like a particular topic to be addressed, please contact us.

 Starts 20 Jan 2025, 10:30
 Ends 20 Jan 2025, 17:00
Europe/Berlin

 Online

 Poster

-  Automatic data processing and results o...
-  Automatic experiment overview with DA...
-  Beamline automation activities at Europ...
-  Data Management Infrastructure for Eur...
-  Data Management Plans - first experienc...
-  Enhancing spectral and temporal diagno...

Workshops and training material



EuXFEL Data Analysis User Documentation

Home

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[Offline Analysis \(Maxwell\)](#)

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[Software Environments](#)



[Jupyter Hub](#)

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This website contains documentation for users coming to the European XFEL for a beamtime.

A description of each section:

- [Overview](#) - summarises key information about the operation of EuXFEL
- [Accounts and Access](#) - information about your user account and what access is available at different stages during your proposal
- [Data Files](#) - overview of the structure of proposal data folders, the data format, recommended ways to read data, information on example datasets, and more
- [Online Analysis](#) - information about both the infrastructure of the Online Cluster, as well as how to perform/view real-time analysis during an experiment
- [Offline Analysis](#) - information about the Offline Cluster (Maxwell), and how to use it to process data after acquisition
- [Jupyter Hub](#) - how to use Jupyter as a service or how to run your own Jupyter notebook instances, on both Online and Offline environments
- [Usecases](#) - specific examples of software and toolboxes for instruments
- [Resources](#) - additional resources and documentation

Get in touch!

Something is missing or you want to discuss your data? Get in touch!
da@xfel.eu

Announcement

DESY-European XFEL – Joint Data science session

14:00	Real time data analysis at PETRA III
14:30	Weak signal extraction enabled by deep neural network denoising of diffraction data
15:00	A high-throughput data pipeline for MHz XPCS: analyzing protein dynamics via solution scattering
15:30	Machine-learning-enhanced characterization of x-ray pulses

Wednesday, 22 January 2025, 14:00 – 16:00
DESY auditorium

Poster session: come and talk to us!

10. A high throughput Data Pipeline for MHz XPCS: Online Analysis
11. A high throughput Data Pipeline for MHz XPCS: Offline Analysis
12. Advancing FAIR principles for XPCS data from XFEL experiments within the DAPHNE4NFDI project
15. Electronic structure calculations and X-ray spectroscopy simulations at European XFEL
21. The new Scientific Data Policy of the European XFEL
22. Data Management Plans: first experience and outlook
24. Interpretable Machine Learning at the EuXFEL
25. Enhancing spectral and temporal diagnostics at European XFEL
27. Electron-Photon Correlations: Towards X-ray Pulse Diagnostics at MHz Repetition Rates
28. xFrame: A software suite for invariant based phase retrieval in fluctuation X-ray scattering
39. DAPHNE4NFDI at European XFEL
40. Automatic data processing and results overview during SFX experiments
42. Data Managements Infrastructure for European XFEL
43. Proposal Lifecycle Services at the European XFEL
44. MyLog: the new Electronic Logbook of European XFEL
58. Automatic experiment overview with DAMNIT
64. Data reduction activities at European XFEL
65. Beamline automation activities at European XFEL
75. Data Analysis at the EuropeanXFEL

Tuesday, 21 January 2025, 16:00 – 19:00
CFEL building

Acknowledgments

The Data Analysis and IT & Data Management groups,
Many colleagues in the Science Division and Instrumentation Department.



Acknowledgments



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Luca Gelisio, for the DATA department

Thank you!

