

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 2021, 14:00 – 16:00
DESY auditorium

Acknowledgments

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



OSCARS
Open Science Clusters' Action
for Research & Society

Workshop agenda

10:45 Data orientation

11:15 News and data highlights

13:00 High-level analysis building blocks

13:45 Automated analysis workflows

14:45 Data management plans

15:30 Data reduction tools

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Time for discussion at the end of each talk.


Poster session

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 2021, 16:00 – 19:00
CFEL building


Workshops and training material


The material presented from 2022 onwards is available here .

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

Something is missing or you want to discuss your data? Get in touch!
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Please, fill the survey, that also helps us.

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