Contribution ID: **8** Type: **Team proposal**

X-ray diagnostics at European XFEL

Experiments at HED, XFEL can run up to 10Hz, providing image data from various diagnostics. In the recent years, scientists are typically using Jupyter labbooks to extract and reduce the data online and then work with the proceesed data more carefully. This reduction process however can be pretty complicated, dependent on many parameters and evolve through years, as an example the unwarping and flatfielding of SAXS scattering datata obtained by the SAXS mirror, or careful anayslis of x-ray spectra from the HAPG spectrometers. I think this process would be great candidate to use it to learn how to handle processes or pipelines in a good and fair way.

Accelerator or Beamline

European XFEL, HED instrument

Team Contacts

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Team Name

Michal & Mikhail

Workflow Goals

Programming Languages

Python

Publications

https://aip.scitation.org/doi/abs/10.1063/5.0021691

Data Volume

some GBs

Team Speaker

Michal & Mikhail

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