



Beitrag ID: 95 Beitragskennung: 48

Typ: **Poster**

## Data analysis at the European XFEL

Our poster presents an overview of the activities within the Data Analysis group at European XFEL. These encompass the development of diverse software tools designed to support the steering and interpretation of experimental data during beamtimes, as well as the post-experiment explanation of their outcomes. We introduce **DAMNIT**, a tool engineered to automatically generate experiment overviews, effectively supplanting the labor-intensive task of manual spreadsheet creation. This advancement streamlines the experimental workflow, promoting efficiency, accuracy and reproducibility. Additionally, we show the Python package **EXtra**, a compendium of libraries tailored to assist the analysis of data generated at EuXFEL. Lastly, along the twin transformation initiative, we present the data reductions methods that are already implemented at EuXFEL and its future.

### Find me @ my poster

2

### Keywords

data analysis  
data reduction

**Autor:** BERMUDEZ MACIAS, Ivette (European XFEL)