

# Serial Femtosecond Crystallography with Deep Learning

*Friday 25 November 2022 13:20 (10 minutes)*

Serial femtosecond crystallography produces large data volumes however, only a small percentage of the data is useful for downstream analysis. In this work, we handle serial crystallography data with deep learning for various challenges including classification, Bragg peak detection, domain adaptation, explainability.

**Primary authors:** PENNICARD, David (FS-DS (Detektorsysteme)); GRAAFSMA, Heinz (FS-DS (Detektorsysteme)); PALA RAMAKANTHA SETTY, Shabarish (DESY); Dr RAHMANI, Vahid (FS-DS (Detektorsysteme)); NAWAZ, shah (DESY)

**Presenter:** NAWAZ, shah (DESY)