BECOMING FAMILIAR WITH ELABFTW

CRISTALLOGRAPHY GROUP

The abstract reported below is taken by "**Crystallographic Data Collection Using a Multilayer Monochromator on an Undulator Beamline at the Shanghai Synchrotron Radiation Facility**" https://doi.org/10.3390/cryst14020199)

Imagine you participate to this experiment and you are using elabFTW as electronic notebook.

1. Define the main resources categories for this experiment and insert the corresponding entries *(you may start by defining the instrument category...);*
2. Define an experiment category and an experiment template by using the resources you inserted.

Abstract

To resolve photons hungry for weak diffraction samples by the crystallographic method, a double-multilayer monochromator (DMM) was employed on an undulator beamline (BL17UM) at the Shanghai Synchrotron Radiation Facility (SSRF) to provide a focused sub-micron beam with high brightness for macromolecular crystallography experiments. High-quality crystallographic datasets from model protein crystal samples were collected and processed by an existing crystallographic program for structure solution and refinement. The data quality was compared with datasets from a normal silicon crystal monochromator to evaluate the bandwidth of the DMM effect on these crystallographic data. This experiment demonstrates that multilayer optics on an undulator beamline may play a valuable role in satisfying the demands of structure-related research, which requires novel methods.