

Analysis of data for cxif5315

Content

- 2015-04-08 [Quick start, calibration, detector alignment, peak finder, scripts](#)
- 2015-05-04 [Angles phi and beta, fraser transformation](#)
- 2015-08-19 [Analysis with new peakfinder](#)
- 2015-10-20 [Indexing](#)
- 2015-11-06 [Geometry re-alignment](#)
- 2015-12-01 [Indexing after fraser transformation with =0](#)
- 2016-02-02 [Cross-checks: Lattice and look up table](#)
- 2016-03-25 [Masks, Background subtraction](#)
- 2016-04-05 [Test of Peak Finders](#)
- 2016-04-25 [Test of Peak Finders - V2](#)
- 2016-05-03 [Test of Peak Finders - V3](#)
- 2016-04-29 [Fit functions and quality](#)
- 2016-04-29 [Phi-beta fit results in ARC and EQU](#)
- 2016-05-13 [Indexing results](#)
- 2017-02-28 [Revision of Analysis](#)

References

- [Calibration Management Tool](#)
- [Detector alignment tool](#)
- [CSPAD Alignment](#)
- Meng's [spreadsheet](#) to the runs taken
- Meng's [link for the CFEL confluence](#) that has the data analysis summary
- Meng's [amyloid_math1.pdf](#)
- [Direct mapping of fiber diffraction patterns into reciprocal space](#), Norbert Stribeck* and Ulrich Nochel ([download](#))
- [Preprocessing averaged XFEL data from adenovirus peptide amyloid and derivation of specimen characteristics](#), David Wojtas and Rick Millane
- [Polanyi\(1921\).Z.Phys.7.pdf](#)
- [fiber-diffraction-formalism.pdf](#) - my note
- [J.Biol.Chem-2005-v280-N4-2481-Papanikolopoulou.pdf](#)
- [Nature-1999-v401-935-Raaij.pdf](#)
- [class ImgAlgos.PyAlgos](#) - collection of n-d array processing algorithms
- [class Detector.PyDetector](#) - direct access to detector data and calibration n-d arrays
- [2015-10-13-meng-indexing1.pdf](#) , [2015-10-13-meng-lineout_from_169_a.txt](#)- Meng's calculations for indexing
- [pyimgalogs](#) (source)
 - [FiberIndexing.py](#) (source)
 - [FiberAngles.py](#) (source)
 - [TDFileContainer.py](#) (source), [TDFileContainer](#) (auto-doc)
- [Scattering and diffraction](#)