

Cross check of correction to optical metrology

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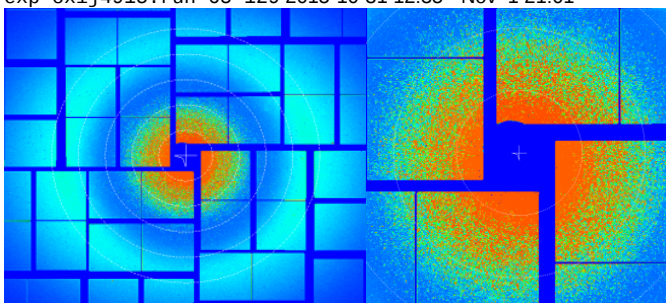
Comparison of the original optical geometry

with tuning of geometry done by Oleksandr Yefanov <oleksandr.yefanov@desy.de>

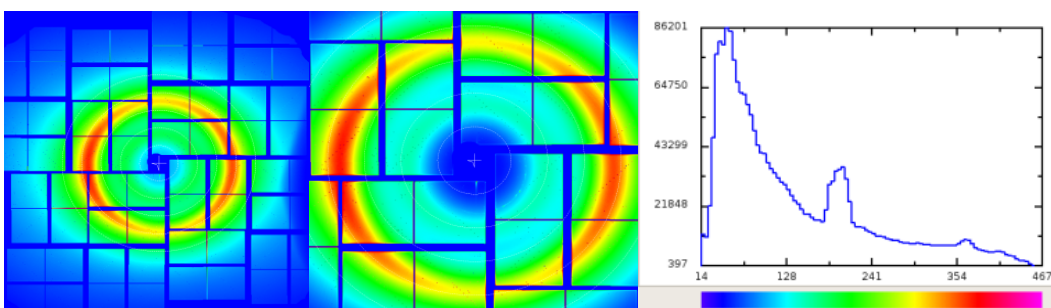
Geometry alignment

cxij4915

- exp=cxij4915:run=42-59 2015-10-30 16:08 - 20:25
- exp=cxij4915:run=65-129 2015-10-31 12:35 - Nov 1 21:01

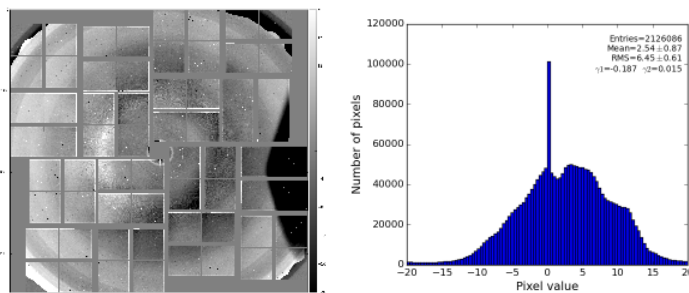


- exp=cxij4915:run=25, 26 2015-10-29 19:07 - water ring

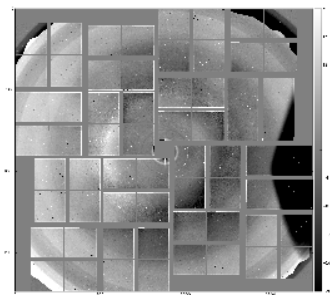


- using [Radial Background Subtraction Algorithm](#) with initial geometry calib-cxi-camera2-2015-01-20/geo-cxi15615-r24-42-v1.data

apply correction of the detector position `geo.move_geo('CSPAD:V1', 0, -2200, -600, 0)` we get

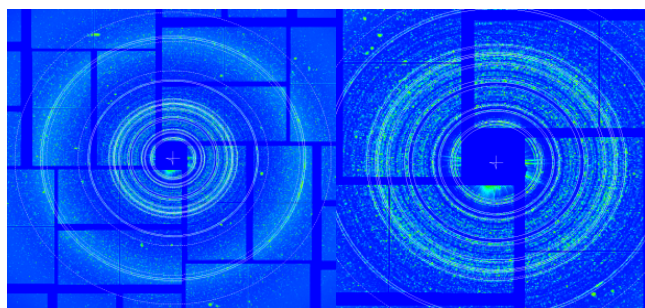


- Geometry file saved: /reg/g/psdm/detector/alignment/cspad/calib-cxi-camera2-2015-01-20/geo-cxij4915-r25-v1.data
- The same image for interpolated background



cxih9615

- Data: /reg/d/psdm/cxi/cxih9615/xtc/ exp=cxih9615:run=48 collected on 2016-06-26 13:13 - 19:18
- Restore xtc data files from tape runs 39, 48, 51, 65
- Optical metrology: [2015-01-20 CSPAD Camera2 Alignment](#)
- Initial geometry: calib-cxi-camera2-2015-01-20/geo-cxi5615-r24-42-v1.data
- Geometry file saved: /reg/g/psdm/detector/alignment/cspad/calib-cxi-camera2-2015-01-20/geo-cxih9615-r48-51-65-v1.data
- Plots:



References

- [2015-01-20 CSPAD Camera2 Alignment](#)
- [Radial Background Subtraction Algorithm](#)