
The Mosflm approach to handling Eiger images

Harry Powell

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Image file reading

HDF5 images can be read by Takanori Nakane's "eiger2cbf"

- why not use H5ToXds?
 - no metadata written to CBF files
 - requires external command file, *e.g.*
 - XDS.INP
 - Mosflm command file
- eiger2cbf
 - from <https://github.com/biochem-fan/eiger2cbf>
 - writes sufficient metadata to allow processing without external command files
 - ∴ useful for all data processing programs

Mosflm and CBF files

Mosflm (aka "mosflm", "ipmosflm" "MOSFLM" *inter alia*) has read & processed

- fullCBF files since 2000
 - *i.e.* "proper" CBF & imgCIF
- miniCBF since 2007

automatically provided they have sufficient metadata, e.g.

- crystal to detector distance
- wavelength
- beam position
- image rotation angles
- detector orientation
- etc.

iMosflm relies on the metadata being present and "correct".

Mosflm & HDF5

Mosflm will process images as CBF files extracted from Eiger HDF5 files from version 7.2.2 (*i.e.* RSN).

Small change from 7.2.1:

- "count_cutoff" field interpreted to set saturation value

Requires keeping eiger2CBF builds up-to-date on Mosflm website

- I can do this occasionally for "the foreseeable future" (no longer working at LMB)

No plans to read HDF5 directly

- could be done given funding (not likely)

requires

- keeping HDF5 libraries up-to-date
- ¿building HDF5 libs with cross-compiler for Windows (currently "difficult")?