Experience with imgCIF at Diamond

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How diamond got involved

- Liz Duke and Gwyndaf Evans

- 3 Phase 1 MX beamlines

- 3 ADSC Q315 detectors required to produce imgCIF/CBF

- 2 beamlines already in user mode third soon

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Current status wrt CBF/imgCIF in MX

- Happy that there is no difference in the data between ADSC and CBF formats
- Mosflm known to process data – still awaiting that version mind you.
- Still awaiting a response from HKL2000
- Future MX detectors required to produce CBF
- 'unexpected' benefit of size
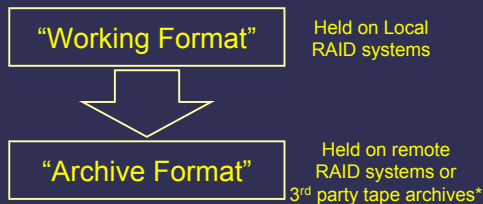
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Why standardisation is important to DLS

- Data compatibility between beamlines.
- Support
- Long term storage and accessibility of data
- Potential UK policy that all data collected with the help of public funds is to be made available.

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Diamond data strategy

| "Working Format" | Held on Local RAID systems |

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| "Archive Format" | Held on remote RAID systems or 3rd party tape archives* |

*Diamond aims to archive all raw data on tape for "__" months

Metadata will also be stored in a DB

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Working Formats

- Variety of CCD formats
  - Photonic Science 4301 etc
  - ADSC 210,315
  - Oxford Diffraction Onyx, Ruby
  - Rigaku (Saturn 944 or 724) - possible
  - Mar 330
- Plain text / SRS format
- ImgCIF/CBF
- NeXus
- A variety of 'standard' image formats
- ………

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Archive Format

- NeXus

- Ultimate aim is that other formats are incorporated into a NeXus file

- Short term aim is that if the working format is well defined then the NeXus file will reference the existing files.

imgCIF/CBF uptake as a working format on non MX beamlines