

## JEM-X OSA Status

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## JEM-X OSA7 improvements

- Gain correction:
  - Better reference values for Xe peak position.
  - Integration over longer times of calibration source spectra to adapt to the situation with fainter calibration sources
- Imaging:
  - j\_ima\_iros has now three standard energy bands for source finding.
  - The source position precision has become better
- j\_ima\_mosaic
  - can now combine images from JMX1 and JMX2.
  - Dynamical memory allocation has been introduced to reduce requirements on input images
  - The DOLs of the input images can be given in the FITS header of resulting mosaic image
- j\_ima\_src\_locator
  - A tool for source finding in mosaic images has been introduced.
- Dead time calculation:
  - A bug in the calculation has been corrected
  - an extended grey filter term has been added to take into account the double triggers

## Future work

- Full corrections for electronic efficiency
- Ima\_cross: imaging software based on existing stand-alone cross correlation imaging software
- ima\_iros: updated version available to fix various problems in OSA7 version