# Status of alternative approach: j\_cross\_ima

SP, CBJ, NJW

# Principles

Integrate with OSA, do not reinvent wheel

- Use coordinates and energy from COR
- Only replace j\_ima\_iros; no source detection, flux extraction
  - Will require j\_njw\_find\_sources, mosaic\_spec
  - What about light curves?

### Problems

- Imm pixels makes a convolution matrix with 100 000 000 elements
- Fast if you have >IGB memory, otherwise swapping all the time
- Solution: Apply the convolution per pixel, but then one must build all images in memory at the same time

# Differences in approach

- Coordinates, energy...
- Do not add photons, but efficiencycorrected (DT, GF, EE, QE, Abs) photons
  - Needs to build separate variance maps
- Dynamic detector map
  Use all pointings from the revolution
  Remove hotspots dynamically

### Status

Imaging seems to work

- Implementing "small memory" method
- Implementing flat-fielding
  - A few things I'm not sure I understand...
  - Will probably require iterations
- Few "small pieces" missing and ... testing!

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10.5

### X SAOImage ds9

### File Edit View Frame Bin Zoom Scale Color Region WCS Analysis



Help

# Open questions

- Is it possible/better to use/define a nonbinary detector map?
- Flat-fielding...
- Spectrum extraction requires storage of partial images
- Jem-X 2?
- Maintenance of the prototype?