

ePix10k2M.1 Calibration/Commissioning tests.

The new 2M has been scanned through all modes and ranges using the internal pulser, thanks to firmware updates by Maciej and some hand-holding from Dan Damiani.

The calibration scan is run with the command `epix10ka2m_offset_calibration -p 1 -D DetLab -I 0 -i 0 -v 0 -V 1 -e 4608 -s 7`. If you type `epix10ka2m_offset_calibration -h` you can get a description of the switches. That script works in ASC...the equivalent script in MFX has a different name and is not working well as yet).

We've been able to get enough flux directly from the Mini-X to flip the autoranging circuitry for the central part of the image. We've also aimed the Mini-X at a copper target to measure Cu fluorescence flat fields.

Beam time 8/10/20:

- Detector in helium, set bias to 120V per MFX.
- Water jet observed to cause ring, not strong enough to cause auto switch.
- Ad lysozyme to jet to up signal....looks good, not sure whether we saw switching or not.
- Vent He, place metallic glass sample in beam.
- Plan:
 - Record biases and currentsTake 5-pedestal sequence
 - Use metallic glass target (which hopefully will not melt before giving high flux)
 - Run attenuator scan in fixed low gain, witness via Wave8
 - Repeat in AHL
 - Repeat in AML