

Hi, Phil,

Couldn't sleep so I checked Krios data collection at 5 am. The intensity is almost halved again.

I came in and found the gun tilt appeared off, so did gun shift. Tried realign. Eventually reached the conclusion that C3 was not aligned properly since the gun tilt looks off as soon as I turn on C3. Anyway, after 2 hours of repeating alignment between Gun and Condenser at 75kx I noticed the beam looked lumpy. Went to 195kX, C2 150 um, objective lens off, and C3 off to check the profile of the beam. It is split again.

Here are a few screen shots.

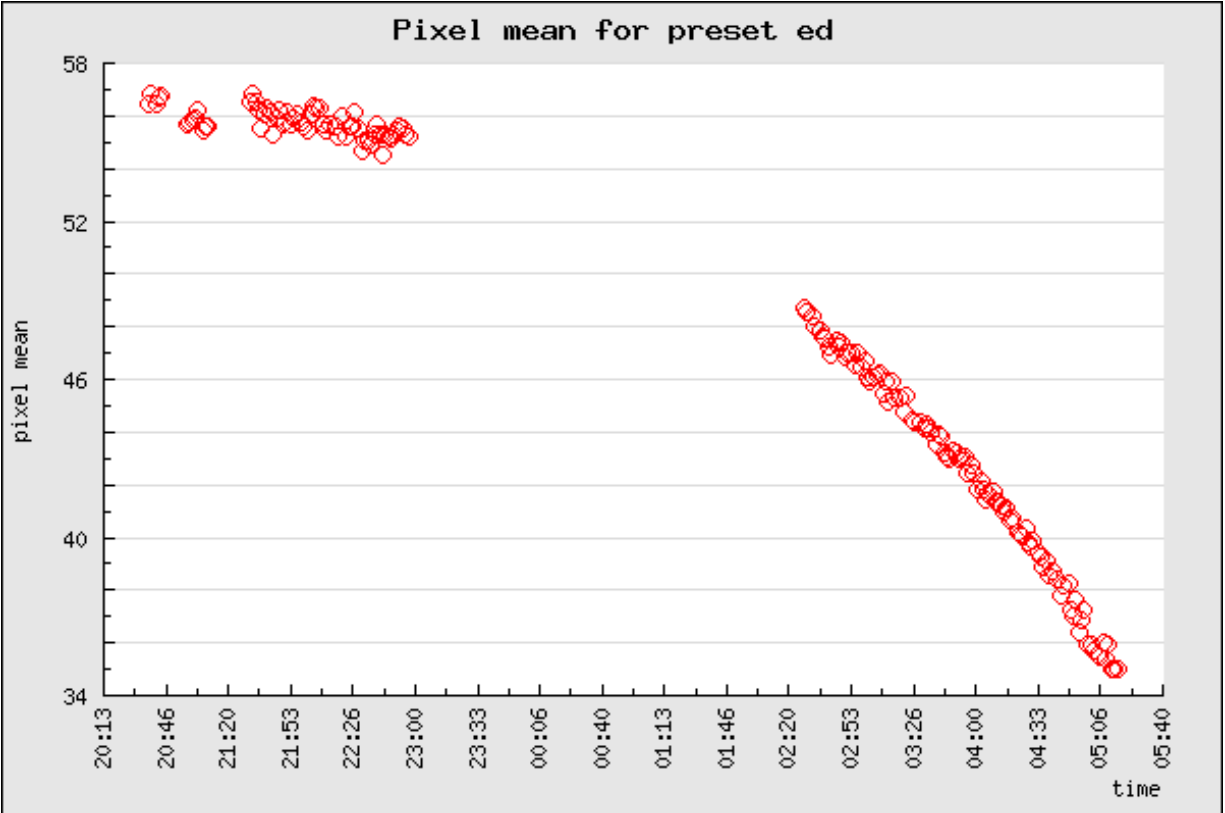
beam_intensity.png shows the intensity dropped over time recorded by legion. The break in time corresponds to the time when the user was screening best area for data collection.

krios_state_5_20am.bmp is a screen print of as much information as I can think of when I came in.
krios_top_split.bmo shows the tip split in Flucam Viewer at ~ 7 am.

This is bad....

I am leaving the scope at the state I observed the split. This is an empty square in the good grid. If you don't move around, it would be o.k.

Anchi



The screenshot collage displays the following components:

- Central Camera View:** Shows a circular field of view with a central bright spot, likely the electron beam spot.
- Control Panels:** Includes sections for 'High Voltage' (set to 300kV), 'Electron Optics', and 'Beam Control'.
- System Status:** A 'Status: Ready' indicator is visible in the top right.
- Electrical Schematic:** A detailed circuit diagram on the left side shows the power distribution and control lines for various components.
- Parameter Tables:** Several tables on the right side list various parameters such as 'Electron Optics', 'Beam Control', and 'System Status' with their respective values.
- Footer Information:** The bottom of the interface shows 'SA 22500 x TEM' and 'Obj Lens: 79.8467%'.

The screenshot displays a complex SEM control interface with several key sections:

- Top Left:** A circuit diagram showing various components like resistors, capacitors, and integrated circuits, with some highlighted in green.
- Top Center:** A table of system parameters including High Voltage (20073, 30000, 227.45), Control Unit (Power Unit, 5000), and various status indicators.
- Top Right:** A live image of the probe tip, showing a bright spot against a dark background, with a color scale on the right.
- Bottom Left:** A detailed list of system components and their status, including High Voltage, Control Unit, and various sensors.
- Bottom Center:** A technical data block for the probe and lens, including:
 - Probe: SA 195 kx
 - High Voltage: 300 kV
 - Focus: 500 nm
 - Defocus: 17.10 μm
 - Beam Current: 2.77 nA
 - Exposure Rate: 9.02 μC/s
 - Obj Lens: 79.8846 %
 - C3 Lens: 0.00 %
 - C2 Lens: 0.00 %
 - C1 Lens: 0.00 %
- Bottom Right:** A status bar with system information, including the name 'TITAN' and various operational metrics.