



**Alvra Commissioning days** 

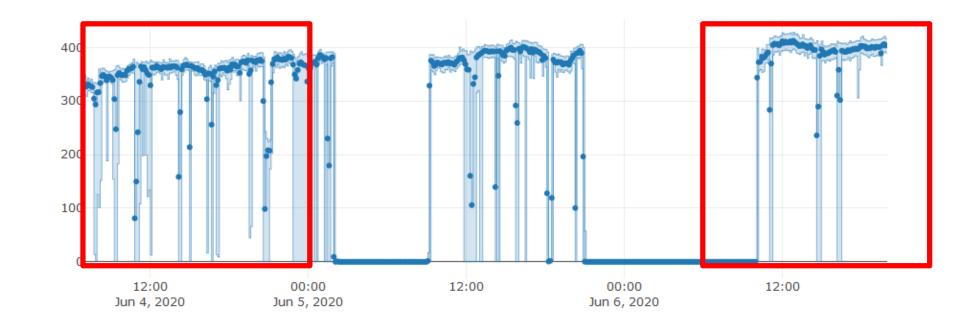
June 4<sup>th</sup> & 6<sup>th</sup>, 2020



# Schedule KW23

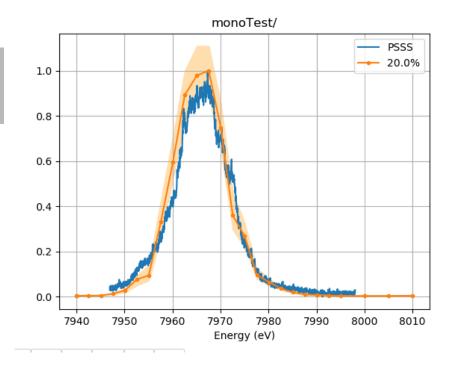


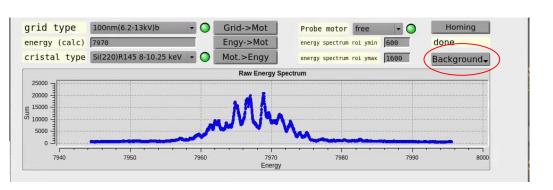
- Machine good and stable at ~ 400 uJ / 8 keV
- Motion issues (homing of OATT120, PBPS117, PBPS122, weird behavior of XOTA128 table)
- Controller power cycle & IOC reboot for OOMV108





# Comparison PSSS vs mono

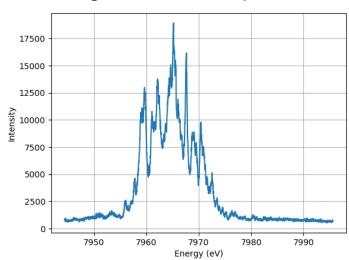




Comparison between averaged PSSS spectra and monochromator scan:

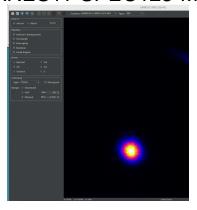
- Bandwidth and shape well reproduced
- 2.5 eV shift (mono underestimating)
- Shot-to-shot backgroud subtraction for PSSS did not work

### Single shot PSSS spectrum

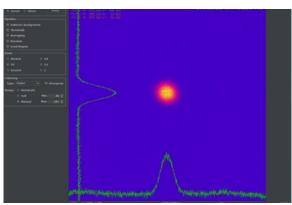


# Acquisition of cameras at 50 Hz

SARES11-SPEC125-M1



#### SARES12-CAMS128-M1



- Full ROIs 2 (2048x2048 pixels) camera acquisition @ 50 Hz
- Image processing pipeline (ROIs selection + projections) running for both
- Missing shots:

Processing parameters: 912 / 1000 (with beam) – 905 / 1000 (w/o beam)

Pictures: 908 / 1000 (with beam) – 908 / 1000 (w/o beam)

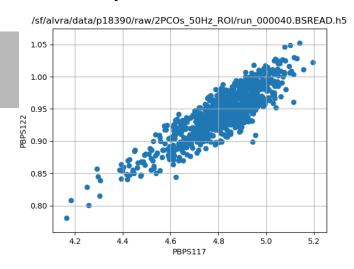
Processing parameters: 931 / 1000 (with beam) – 905 / 1000 (w/o beam)

Pictures:
928 / 1000 (with beam) – 908 / 1000 (w/o beam)

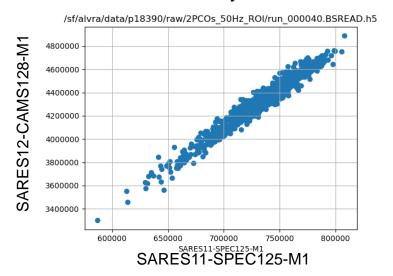
• 9-10% missed shots, much worst statistics that during the control tests.



### Intensity monitors correlation



### Cameras intensity correlation



#### Cameras vs Izero correlation

