



SoM-CAM interlock test on September 18th

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Goals

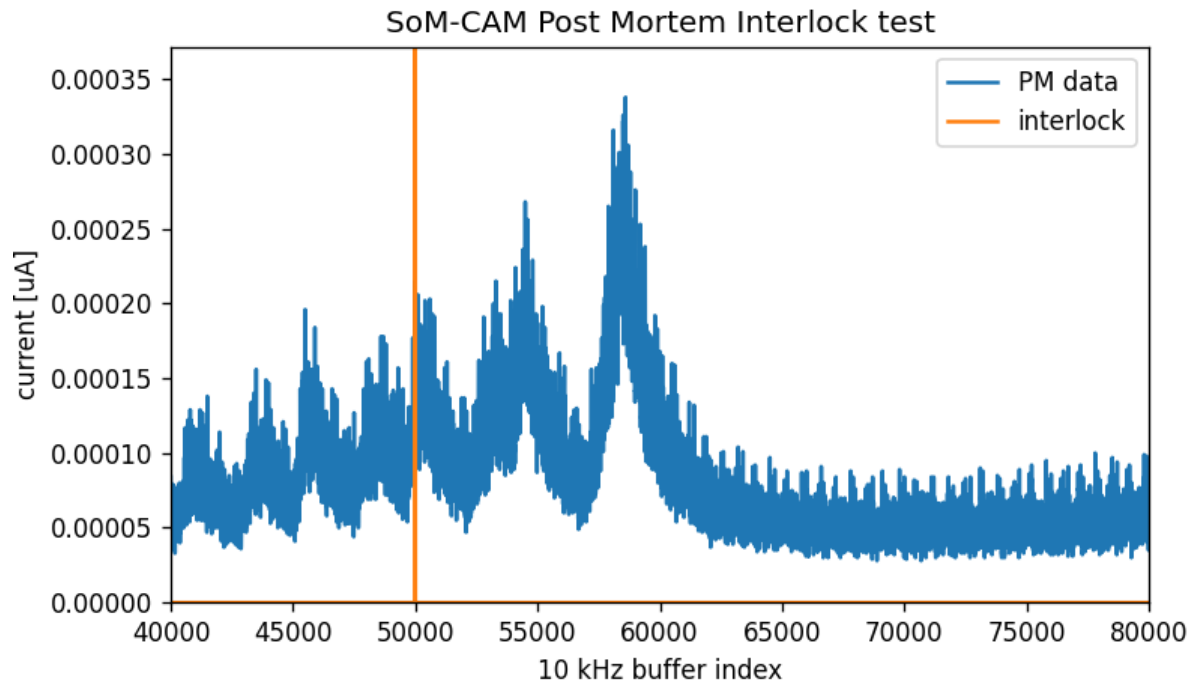
- First verification of interlock implementation based on ‘leaky bucket’ algorithm with beam.
- Register some real beam loss profiles with post-mortem data acquisition.

Method

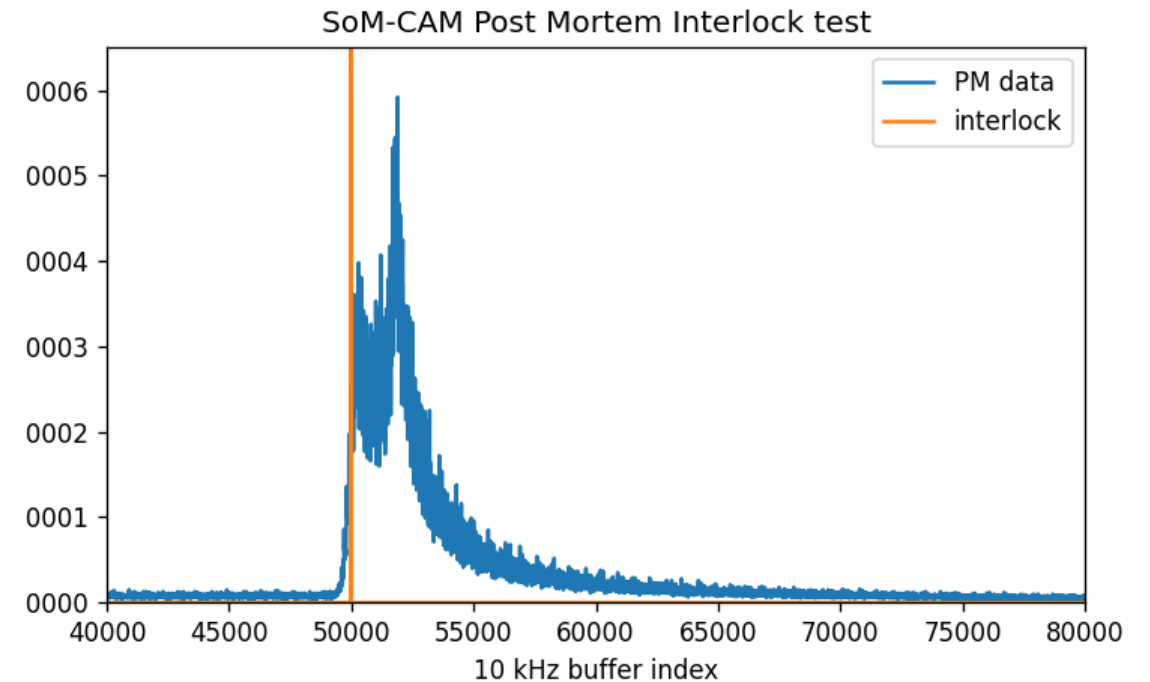
- Place MRI9B ionization (read out by SoM-CAM) next to MRI9 (read out by LogCAM). Assumption: they give similar signals.
- Use interlock algorithm with the same parameters on both channels. Not done, need input from Pierre-Andre.
- Trigger the interlock by running RRL1 B scan at beam current of 500 uA (or less).



CH-PM-DAQWF-I-0_11h-21m-24s



CH-PM-DAQWF-I-0_11h-27m-23s



In both cases the LogCAM interlock was triggered later. This is because we did not have the real parameters for the algorithm. We have to discuss it with Pierre-Andre.

Conclusions

- Short test, not fully conclusive (lack of direct comparison between LogCAM and SoM-CAM channels) but nevertheless interesting.

Next steps

- Catch more temporal profiles of beam losses
- Comparison test with LogCAM equivalent parameters

