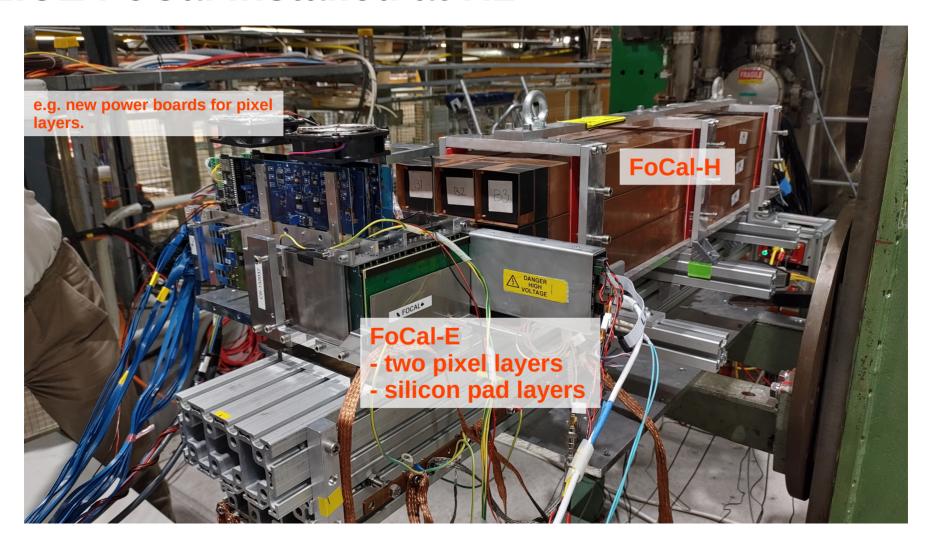
ALICE FoCal at SPS H2

Max Rauch, Tommaso Isidori, for ALICE FoCal

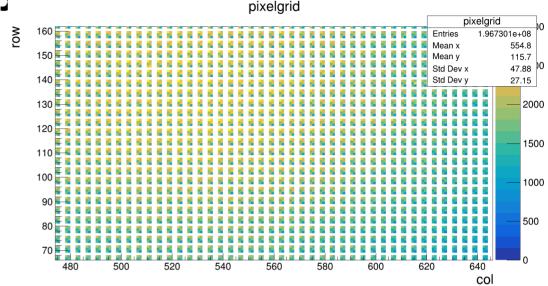
SPS Users Meeting 25th May 2023

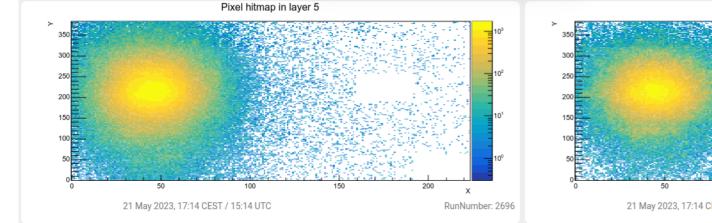
ALICE FoCal Installed at H2

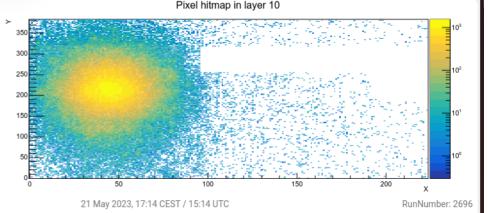


Pixel studies sucessfully done

- All pixel modules functional
 - Needed to mask some outliers outside the tungsten block
- Noisy pixels masked
- Masked pixel matrix in a grid-like structure in order to reduce occupancy
- Tests with continuous readout @100kHz and 50 kHz done

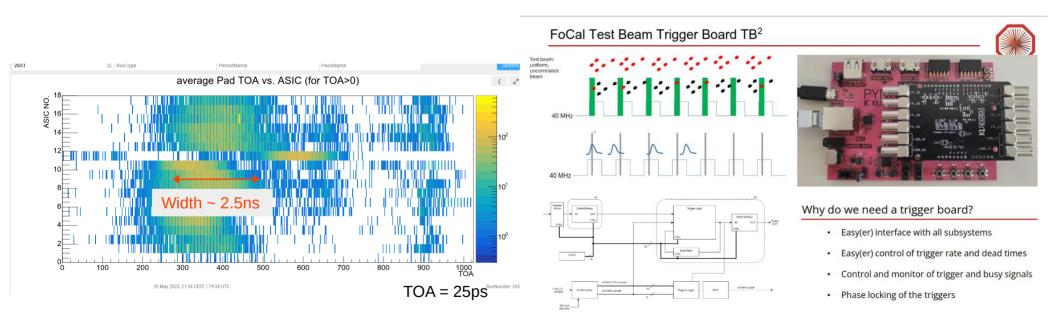




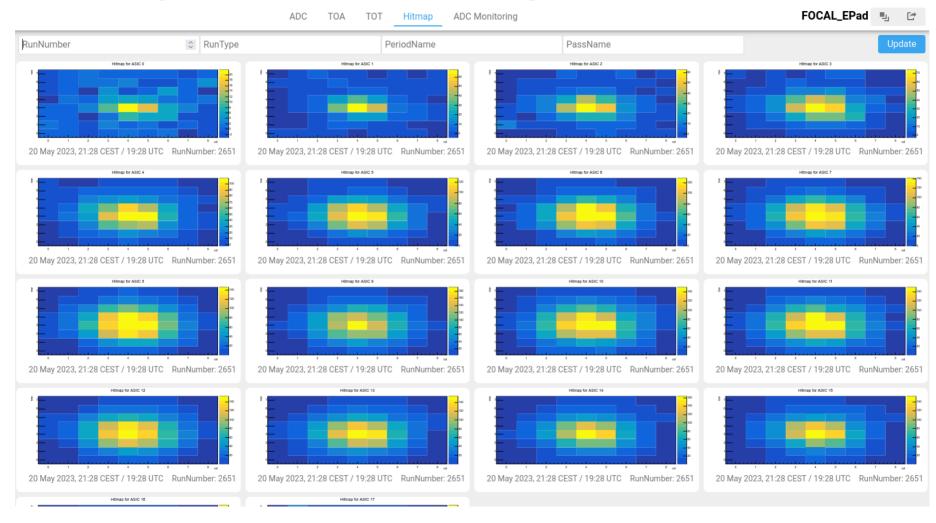


FoCal-E Pad Timing

- Test beam trigger board worked as expected
- Important timing information for FoCal-E Pads!
- Some layers out of timing not avoidable → we gained a lot of understanding of the detector

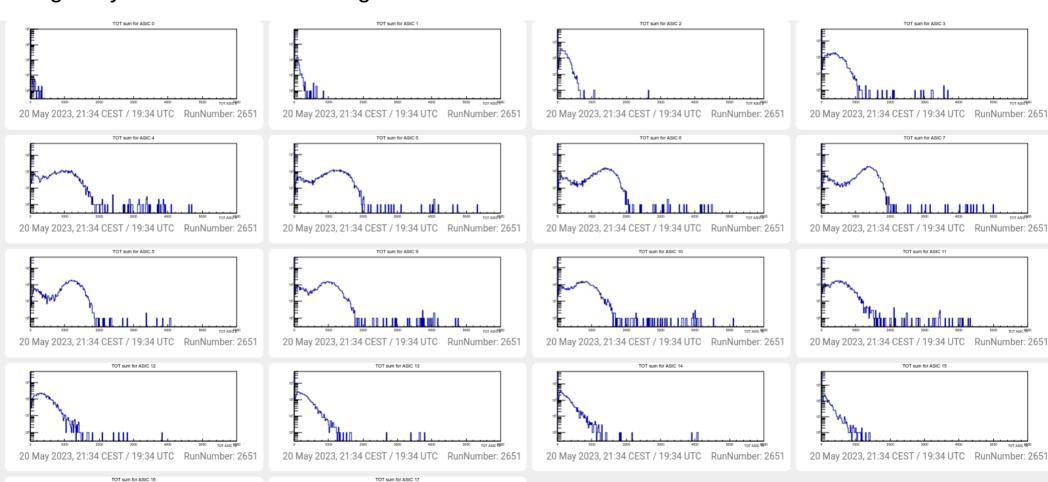


Monitoring and Run Control through ALICE QC and ECS

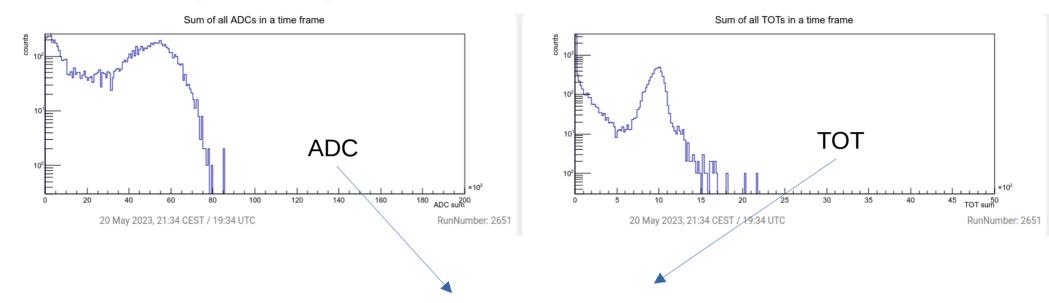


Monitoring and Run Control through ALICE QC and ECS

e.g.: Layer-wise TOT monitoring



FoCal-E pad signal

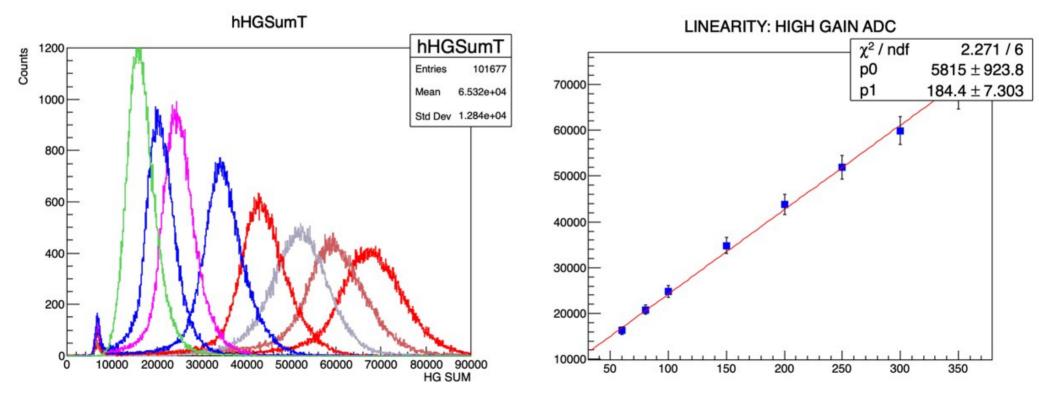


Combination gives signal

- Pre-amplifier settings + thresholds optimized during testbeam
- Need to calibrate in lab for combination

FoCal-H without FoCal-E in front

- FoCal-E removed from Monday noon till Tuesday noon
- Hadron data not polluted by FoCal-E



Final Remarks

The coffee area next to the control room was not available.

Big thanks. In particular to Nikolaos.