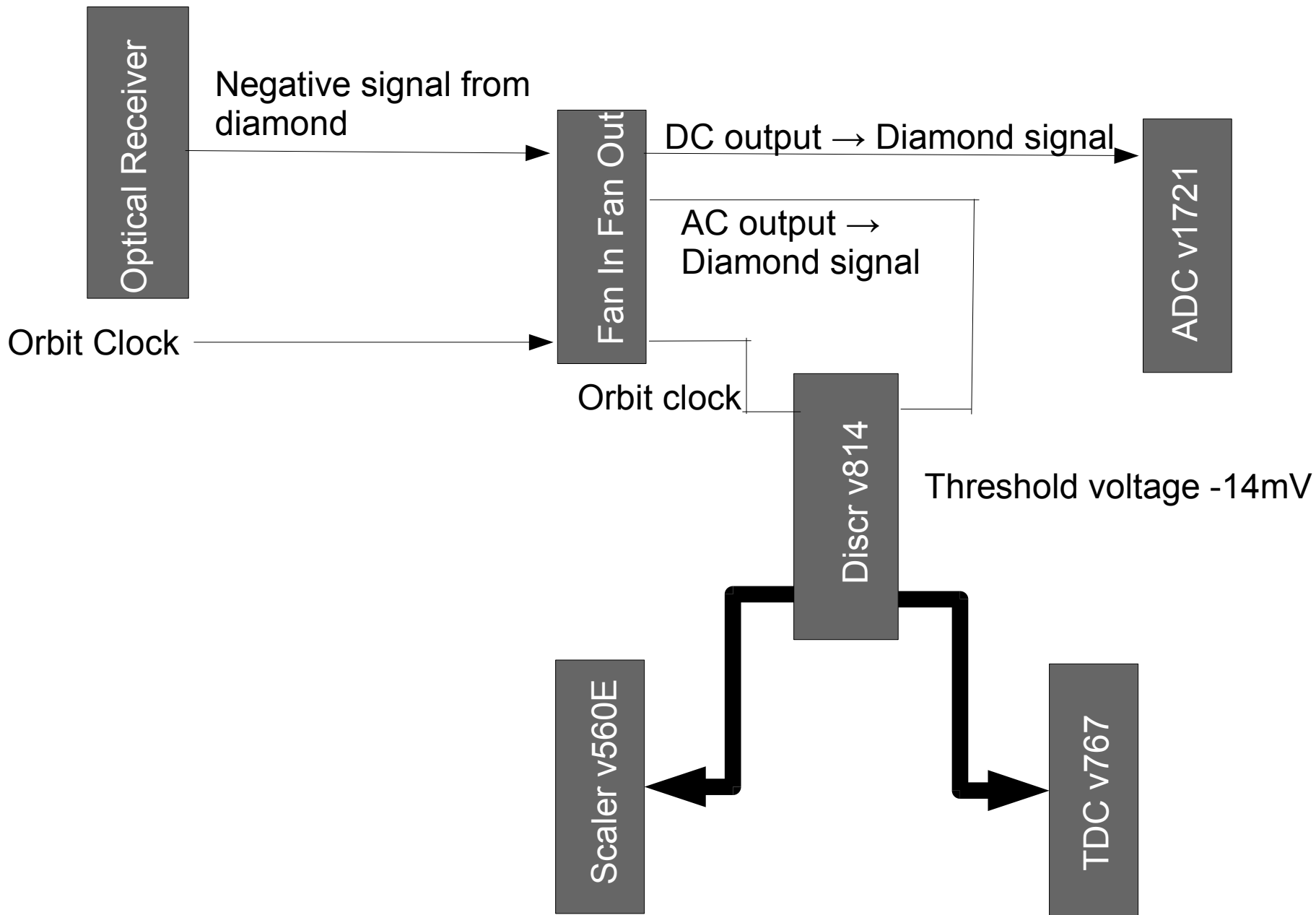


BCM1F4LHC

Maria Hempel
BTU Cottbus & DESY

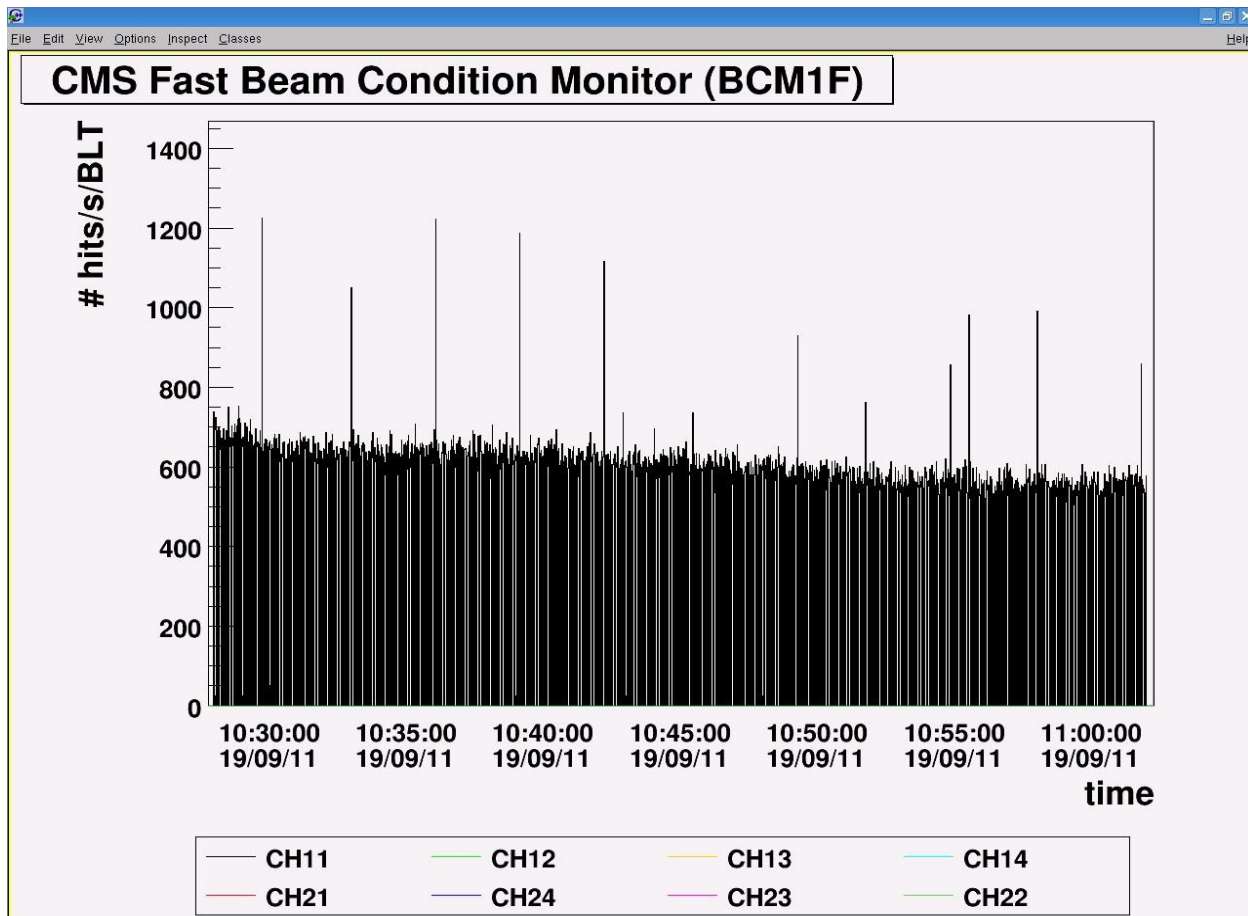
Setup



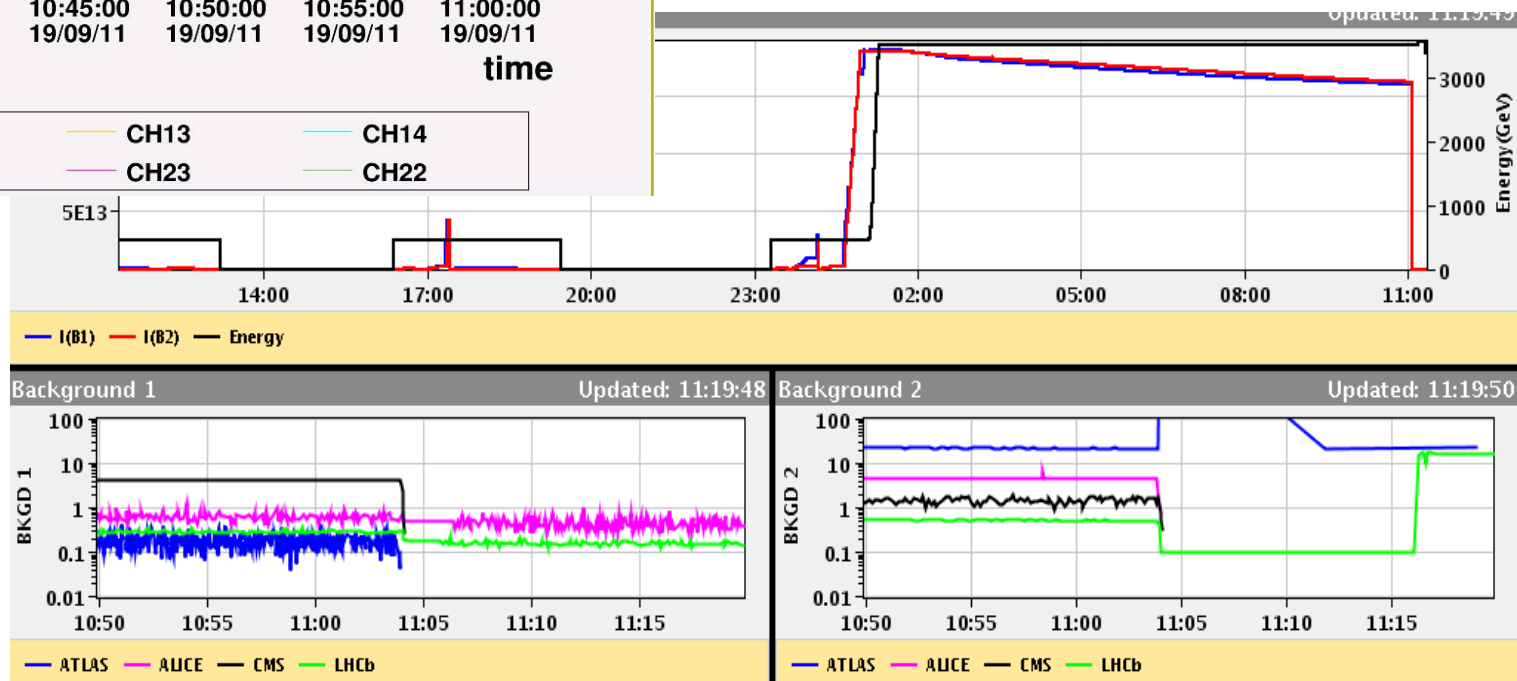
TDC

- Readout with BLT_arrays_v0.5.1.1 → program from Roberval
→ using block transfer and no Ring Buffer
- Implementation of Ring Buffer this week
- TDC is working and got some data

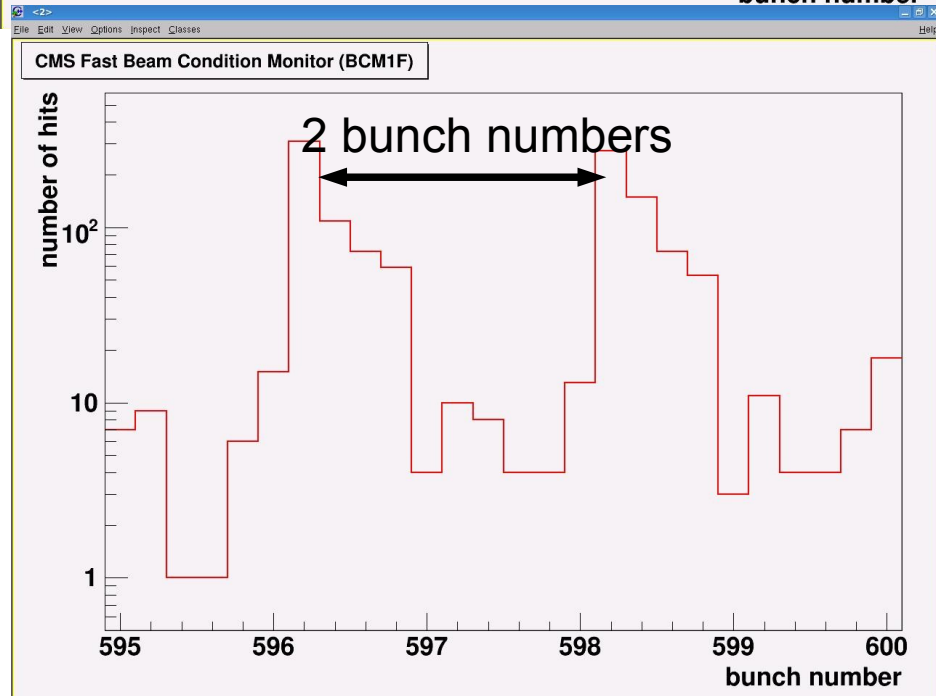
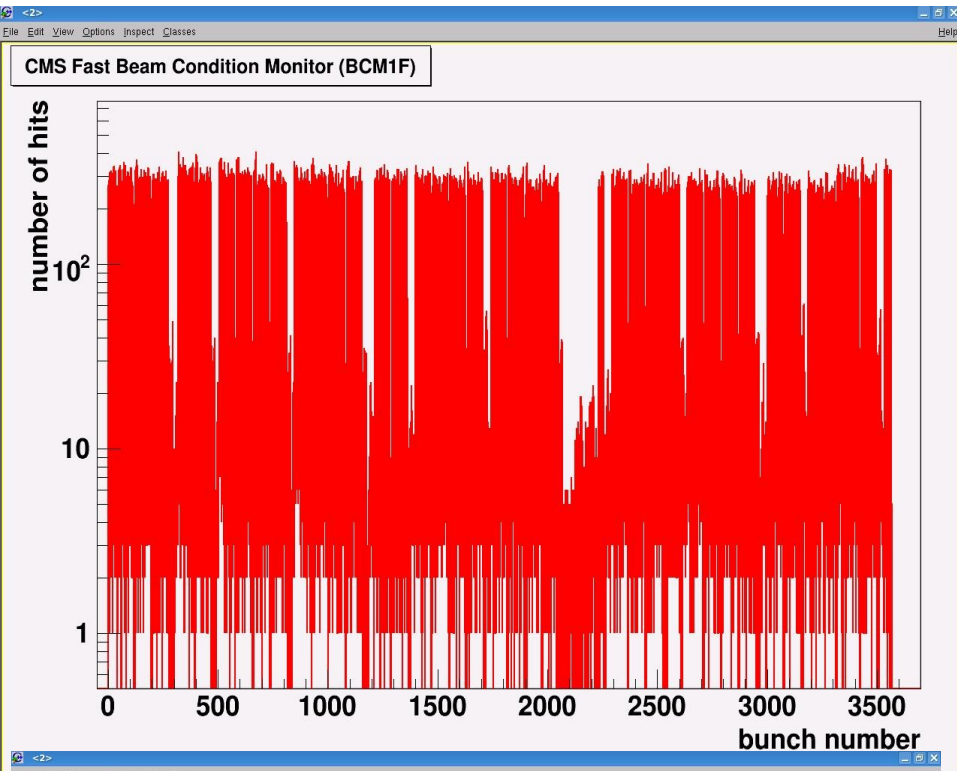
TDC Measurements



- Using channel 81 of the TDC



TDC Measurements

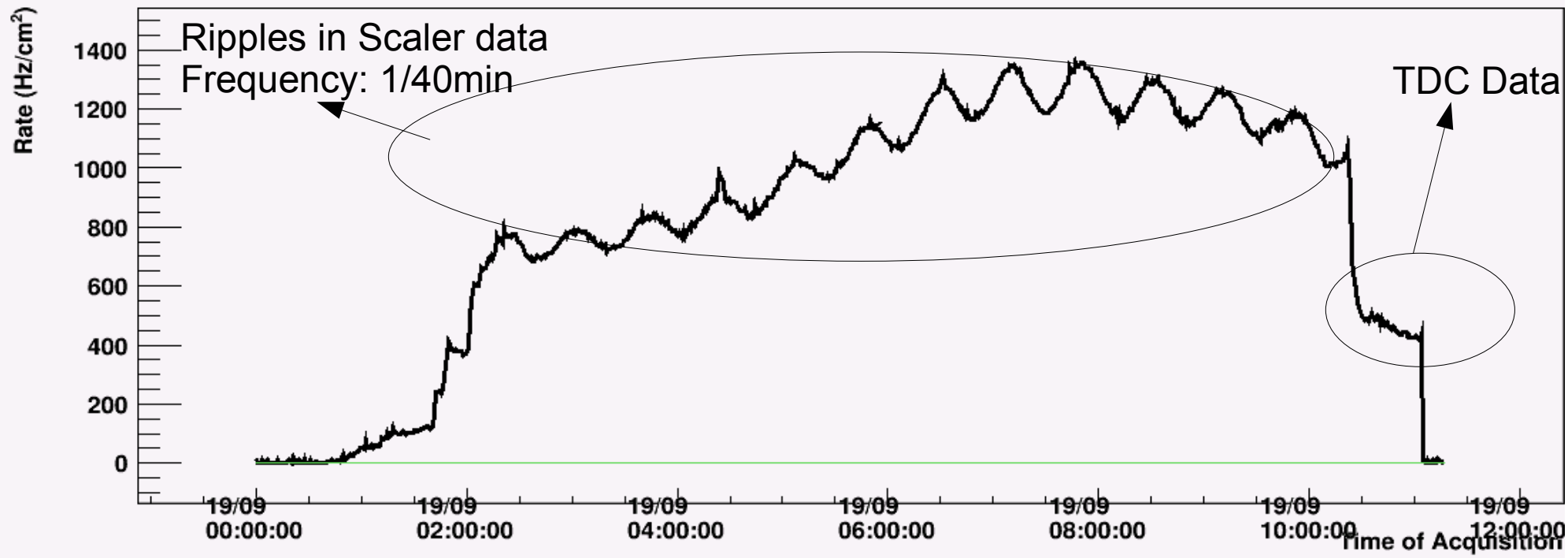
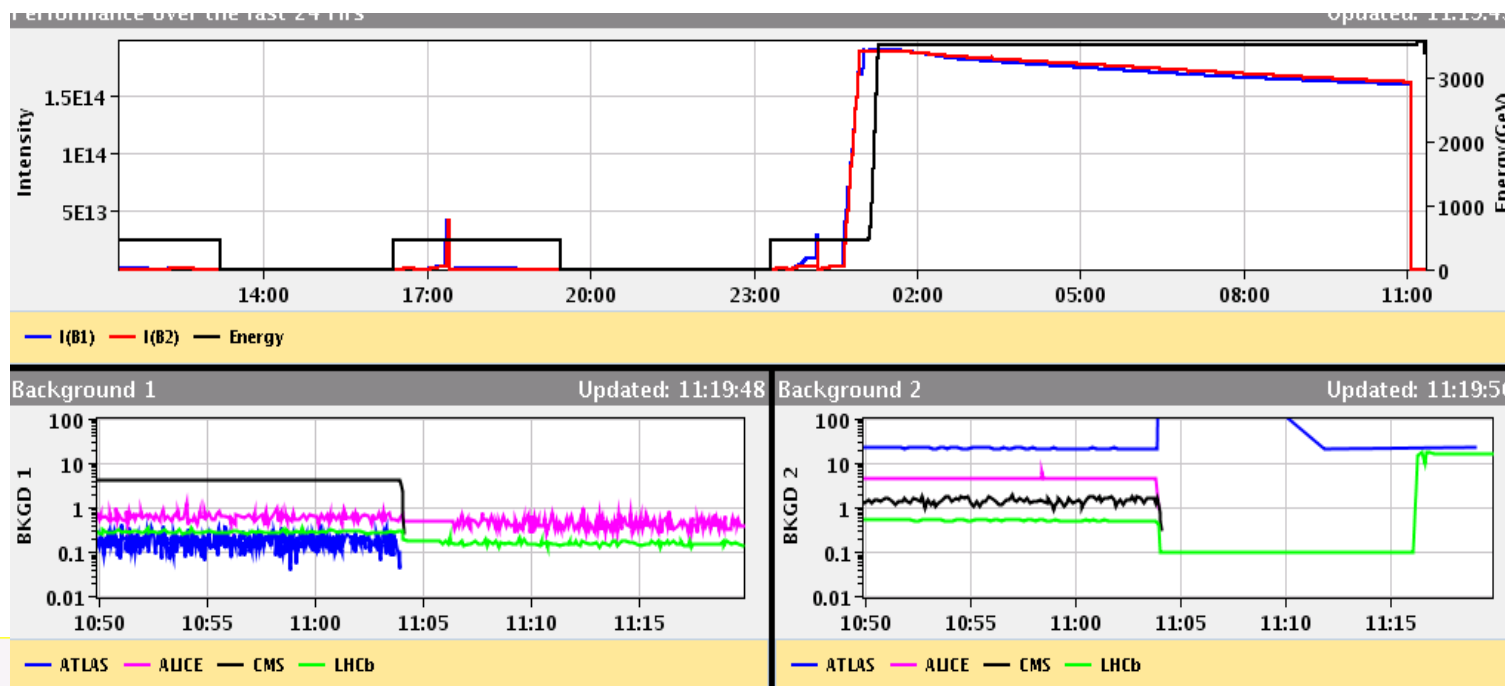


- Time between 2 consecutive bunches: 2 bunch numbers --> 50ns
- Problem: find the bunch #1
--> too many bunches
--> need it for time calibration

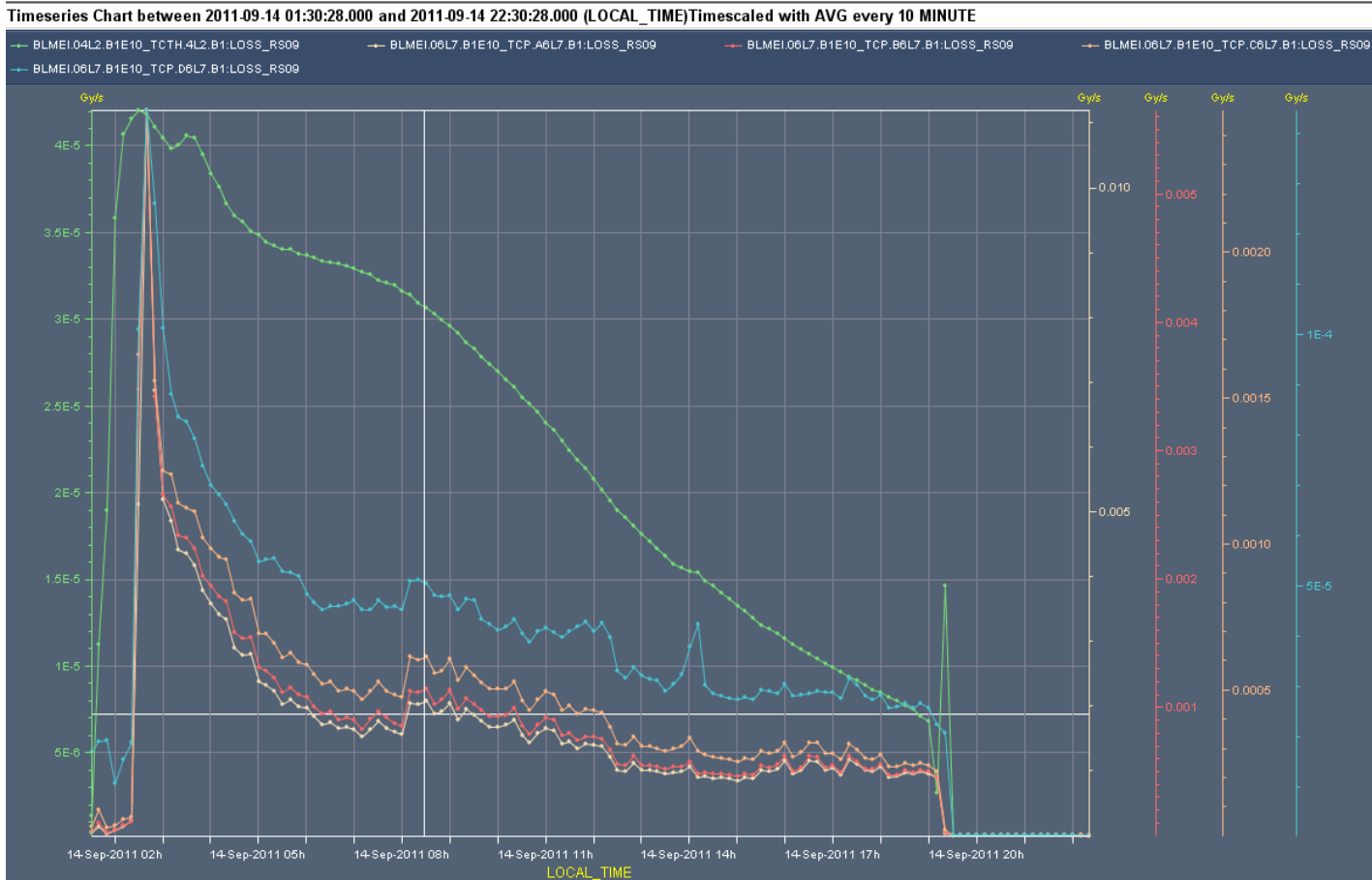
Scaler

- Record of 1 file/day
- Same working operation as in BRM scalers
- Applied orbit clock, bunch clock and diamond signal

Scaler Measurements



Explanation of Ripples?



- plot of the BLM in R2 and at the TCP of IR7, betatron cleaning.
- I think you can also see the variations, less pronounced but visible.

Next Tasks

- Time calibration for TDC
- Installation of Ring Buffer (this week)
- Calibration of discriminator
- Signal from ADC
- Install the DAQ to the new computer