

# Pixel DOC report

April 25 – May 1

Stefanos LEONTSINIS<sup>1</sup>, Tamás Álmos VÁMI<sup>2</sup>

<sup>1</sup> University of Colorado, Boulder



<sup>2</sup> Wigner RCP, Budapest



# Monday – 2016-04-25

A bug makes us fail to initialize for the first time,  
according to Philipp next RCMS update will include the old library  
which does not have the bug

Update of the RCMS is foreseen next week

Pixel was off-locked for scrubbing

# Tuesday – 2016-04-26

Not in *global* for a while  
because the shift leader misunderstood instructions  
for Injection Probe Beam mode:  
„Make sure ALL subsystems (except pixel, pixelup, strips) are in the run”  
-- [WBShiftLeaderInstructions](#)

Crazy L1 rates (40 MHz) because of some hardware problem at HF

# Tuesday – 2016-04-26

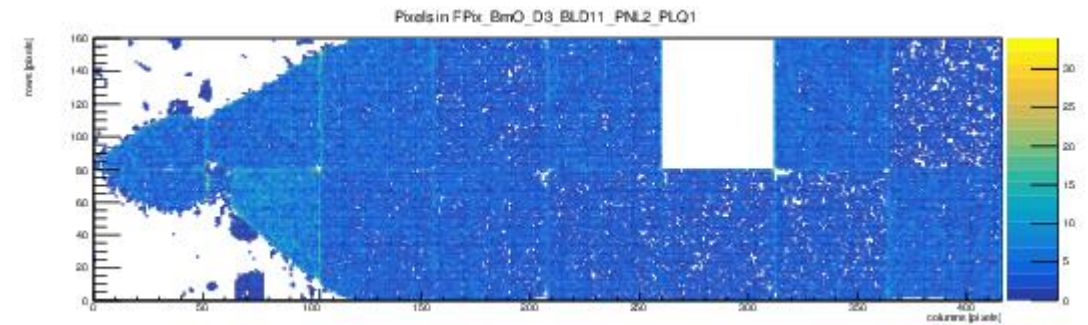
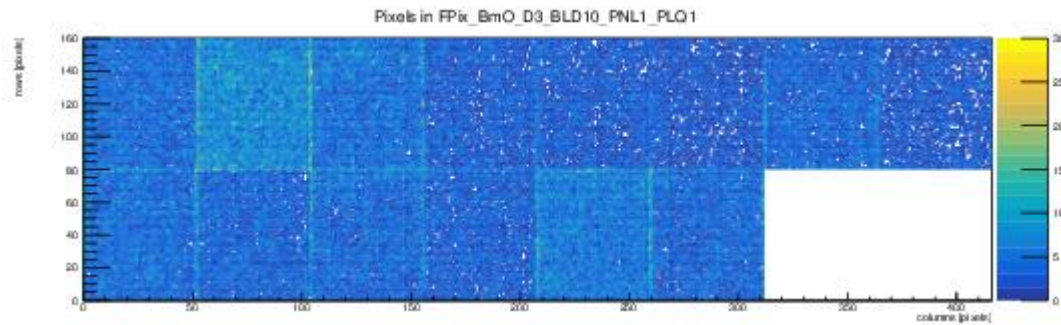
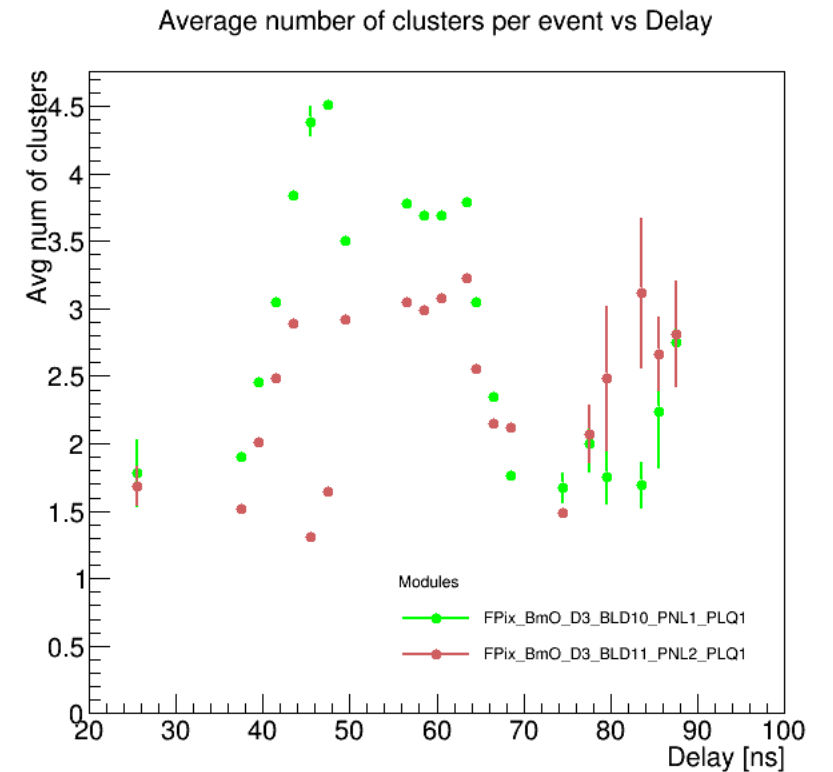
PIXEL\_UP (Pilot blades) went out\_of\_sync  
because we did not carry out the power up procedure  
(running crate + ring reset)

For future reference instructions for the power up procedure at  
[PixelExpertActions](#)  
under point: “After VME or modules power cycle for pilot blade”

# Tuesday – 2016-04-26

Pilot blade offline results from the data collected at the weekend

[Elog link](#)



# Wednesday – 2016-04-27

Scheduled slow ramp up of the magnet to 2 Tesla

Beam announced to around 24:00, stable beams at 6:00 in the end

Pilot had problems with initializing due to a change in the TCDS XaaS by Central DAQ during the day

# Thursday – 2016-04-28

Stable magnet at 3.8 Tesla

Stable beams in the evening

FED baseline calibration done by Rachel // not saved

# Thursday – 2016-04-28

Repeated bias and timing scans for Pixel

Bias scan results: [Elog link](#)

Timing scan results: [Elog link](#)

FED 18 was OUT during the Timing Scan

Pilot working in global, Timig Scan in [90:112] ns interval

Timing scan results: [Elog link](#)



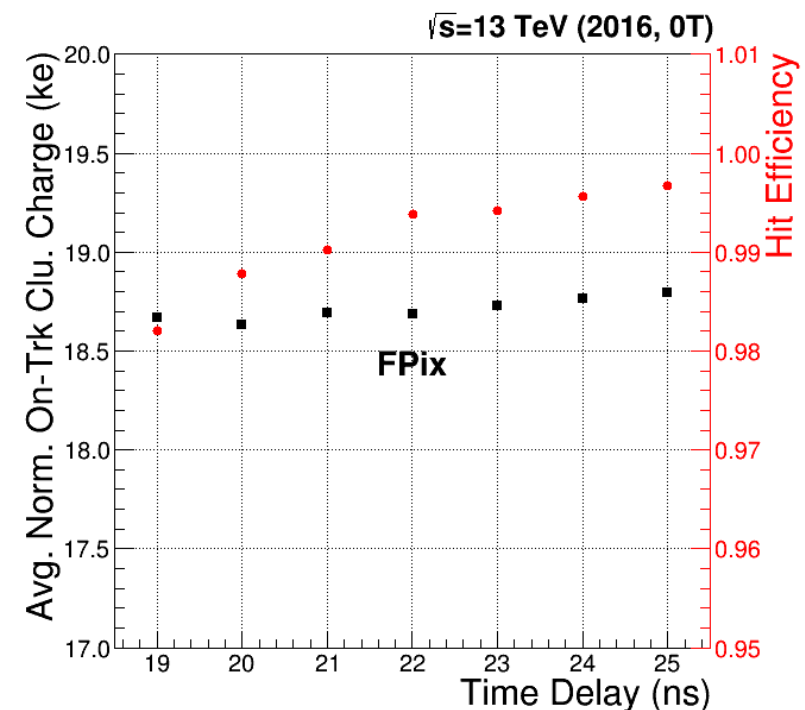
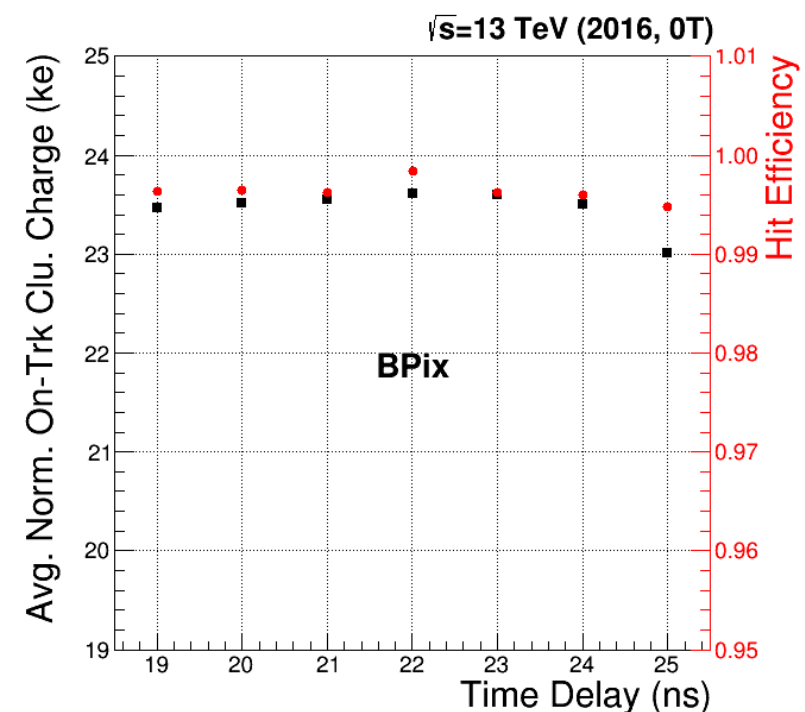
# Friday – 2016-04-29

The weasel came...

Magnet back to 2 Tesla

Janos presented the results of the 0 Tesla  
Timing Scan at the Tracker DPG Meeting

[Indico link](#)



# Saturday – 2016-04-30

Stable magnet at 3.8 Tesla (again)

CRAFT data taking from the evening

FED baseline calibration, Run 272090 (converged in 4 iterations) + 272092 (converged in 2 iterations). All channels looked ok.

Pilot was working properly

# Sunday – 2016-05-01

CRAFT data taking all day

Pixel was working properly without any problem

Pilot was working properly without any problem