

Test Beam Preparations




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Global Schedule (Preliminary)

DECEMBER 2013

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
MARCO @TB24						1
2	3	4	5 PocketDAQ @TB24	6	7	8
9	10	11	12	13	14	15
DHH/ONSEN with EMCM						
16	17	18	19	20	21	22
DATCON						
23	24	25	26	27	28	29
30	31					

 PXD
 SVD
 PocketDAQ



Laboratory Meeting

Laboratory Meeting Friday 22nd November in Bonn

Participants from Bonn, HLL, TUM

L. Germic, C. Marinas, F. Müller, D. Levit, Ch. Koffmane, M. Valentan,
F. Lütticke, M. Lemarenko

Preparations towards PXD6 lab and beam tests:
ASICs, Sensors, Hardware Components, Software, Firmware

ASICs

- SwitcherB1.8G

SwitcherB1.8G assembled on Hybrid5.0 (DHP0.2)

Tex files for SW sequences (non-gated operation) to be prepared

- DCDBv2

Common set of previously found optimal DACs and RefIn+AmplLow

Acquisition of 3x256 (L+R) ADC transfer curves

If acceptable, no detailed individual optimization

Baseline operation: 250 MHz

- DHP0.2

Pedestal compression to be tested

Pedestal calculation from DHH → PC

Sensors

- I06

Belle II Standard Design

50x75 μm^2

5 SwitcherB1.8G

3 DCDBv2

3 DHP0.2

- J00

Capacitive Coupled ClearGate and PolyCover (externally applied)

50x75 μm^2

4 SwitcherB1.8G

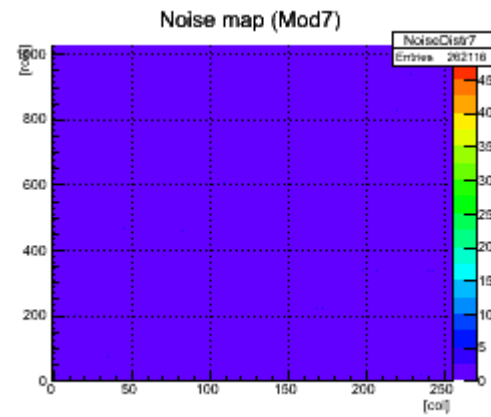
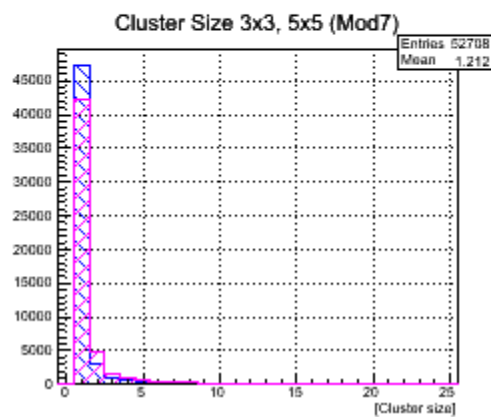
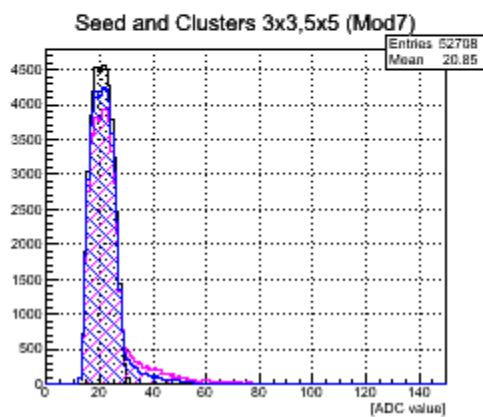
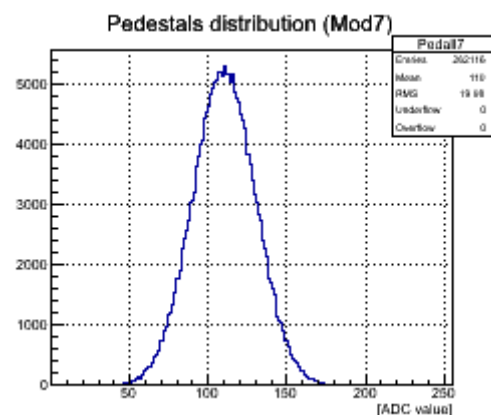
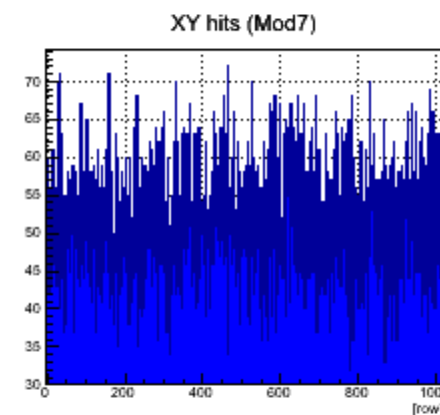
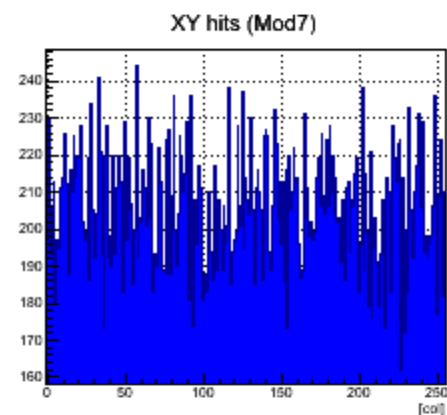
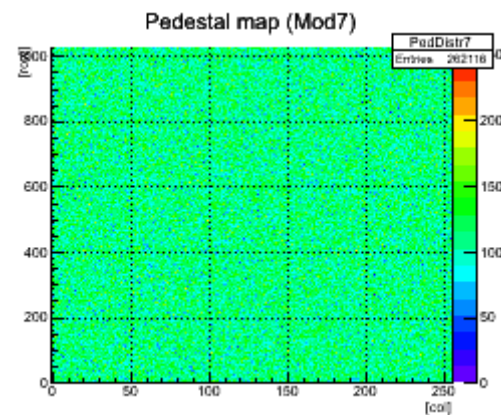
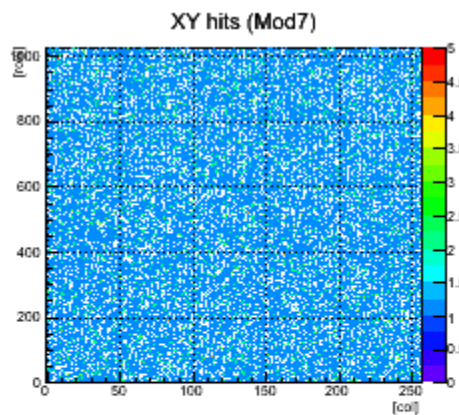
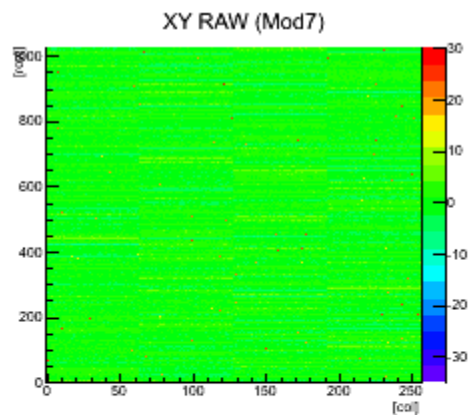
3 DCDBv2

3 DHP0.2

- Both sensor types have been characterized using small PXD6 (H4+H5)
- Asynchronous readout → Data merging via Trigger number
- Only one pair of DCD+DHP read at a time

Components

- PCB Hybrid 6.0 PXD6-1 arrived
Assembly this week
- PCB Hybrid 6.0 PXD6-2 (mirrored)
End of this week
- 6 Infiniband cables (15 m) available
8 more ordered
- EMCM jig to be PXD6 adapted → Enlarged opening for lab testing
- Breakout board (20x10 cm²) → Attachment to the PCMAG needed
- Carbon-copy of software/firmware/hardware at HLL and Bonn
- DAQ and OnlineMonitor → Ready
- EMCM kept as backup plan



Thank you

