

DVCS weekly meeting

July 19th, 2010

Tests with cosmics: 3 ARS boards/3 calorimeter columns

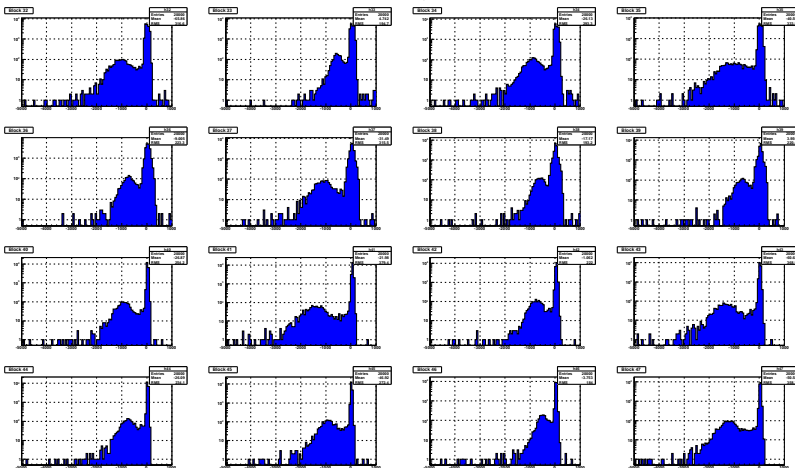
- ▶ Run 1830: 06k events (~ 02 h)
- ▶ Run 1833: 64k events (~ 17 h)
- ▶ Run 1835: 85k events (~ 23 h) \rightarrow used to illustrate next slides
- ▶ Run 1836: 20k events (~ 06 h)
- ▶ Run 1837: 55k events (~ 16 h)

Three independent (and recurrent in every run) problems found:

1. After a few hours (few 10k ev) , boards stop responding to data request (register 68 stays *continuously* at 0)
2. After a few hours, pedestals become unstable (see next slides)
3. At any time, it seems to be some inefficiency for cosmics (next slides)

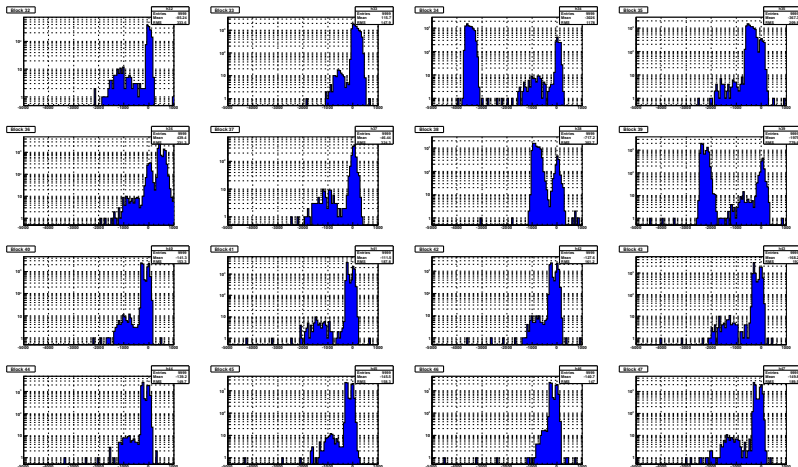
Pedestal shift (run 1835)

Event < 20k



Pedestal shift (run 1835)

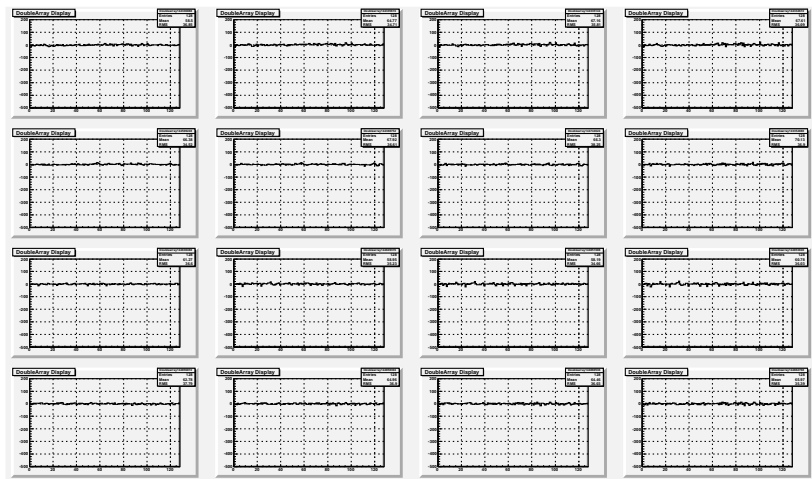
$20k < \text{Event} < 30k$



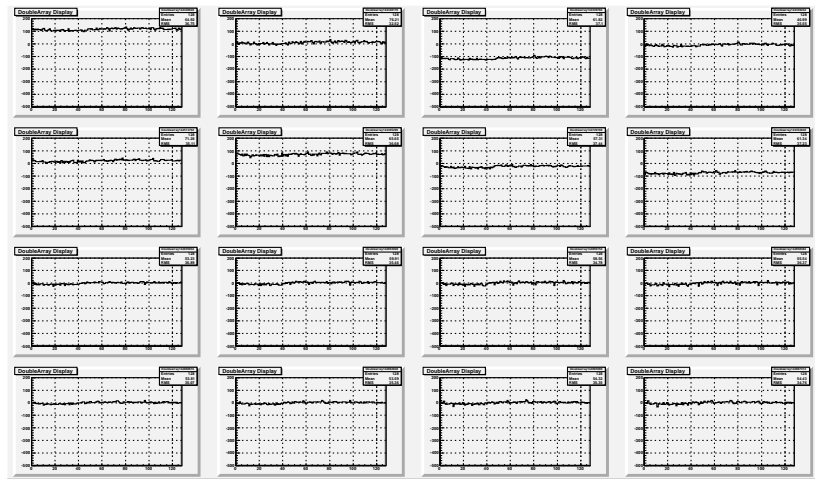
Sometime after event 30k, board(s) stopped responding

Pedestal shift

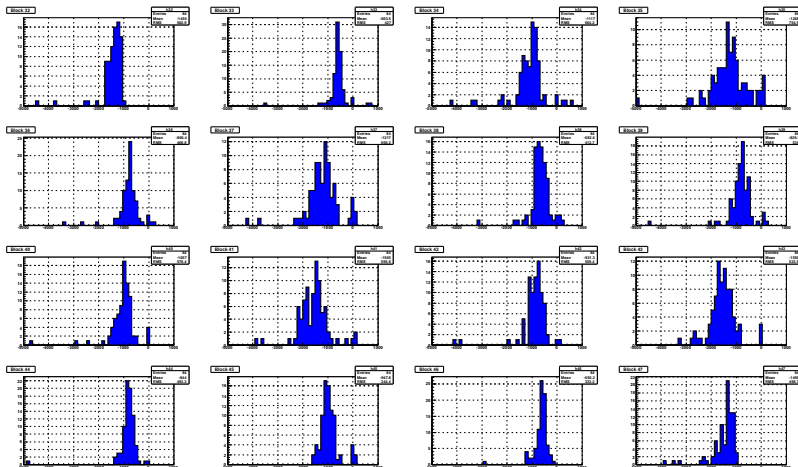
Pedestal shift (run 1835, event 10000)



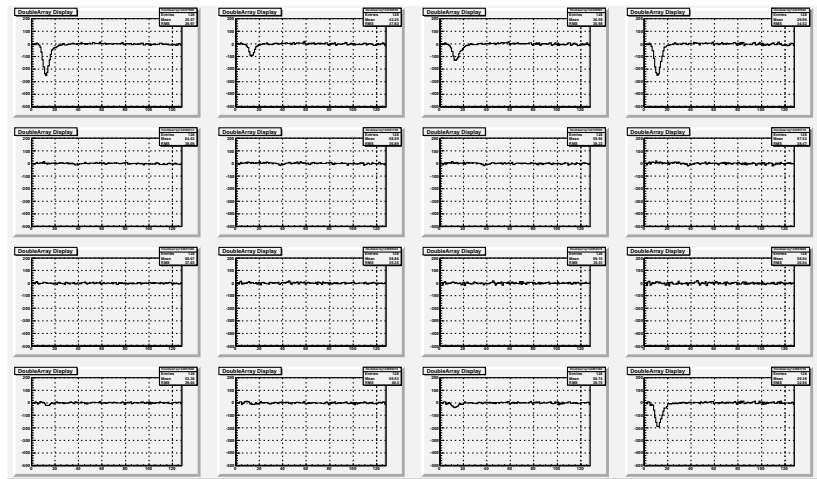
Pedestal shift (run 1835, event 24725)



Vertical cosmics (run 1835)



Run 1835, event 17978



Luminosity monitoring

- ▶ R-HRS will probably be unavailable during DVCS
- ▶ Discussions about using singles in L-HRS (assuming we can get DAQ working with several triggers) and some other complementary detector (lumis ?)

Run preparations

- ▶ Shift schedule ready
(will be released after firm experiment schedule is available)
- ▶ Run coordinator draft list prepared by Julie

DAQ

- ▶ Firmware 13 more stable (allowed to take cosmics this weekend), but still some issues (see above)
- ▶ Working remotely with Magali and Alex

HV GUI

Java based GUI running (through serial port) to control HV

The screenshot shows the 'High Voltage System Control' window. It features a menu bar (File, Edit, View, Map, Alarm, Tools) and a window title bar. The main area is divided into two sections: a control panel on the left and a data table on the right.

Control Panel: Includes buttons for 'STOP', 'START', 'OFF', and 'remote'. A 'status' indicator shows 'remote'.

Data Table: Displays parameters for 12 channels (S0 to S15). The table has columns for Ch_name, Meas uA, Meas V, Target V, RUp V/s, RDn V/s, Trip uA, Ch_En, Status, MVDZone, MCDZone, and HVL.

Ch_name	Meas uA	Meas V	Target V	RUp V/s	RDn V/s	Trip uA	Ch_En	Status	MVDZone	MCDZone	HVL
L0,0	-137.0	-1326.1	-1326.0	61.6	61.6	-2550.0	☑	0001	3.0	8.1	-2010
L0,1	-138.8	-1251.0	-1251.0	61.1	61.1	-2550.0	☑	0001	3.0	8.1	-2010
L0,2	-181.6	-1738.7	-1738.0	61.3	61.3	-2550.0	☑	0001	3.0	8.1	-2010
L0,3	-173.0	-1560.9	-1560.0	61.1	61.1	-2550.0	☑	0001	3.0	8.1	-2010
L0,4	-141.6	-1403.4	-1403.0	61.5	61.5	-2550.0	☑	0001	3.0	8.1	-2010
L0,5	-156.1	-1377.6	-1378.0	60.9	60.9	-2550.0	☑	0001	3.0	8.1	-2010
L0,6	-132.9	-1261.8	-1260.0	61.2	61.2	-2550.0	☑	0001	3.0	8.1	-2010
L0,7	-143.8	-1388.5	-1388.0	60.9	60.9	-2550.0	☑	0001	3.0	8.1	-2010
L0,8	-130.5	-1180.1	-1179.0	61.1	61.1	-2550.0	☑	0001	3.0	8.1	-2010
L0,9	-165.9	-1589.1	-1589.0	61.2	61.2	-2550.0	☑	0001	3.0	8.1	-2010
L0,10	-161.6	-1501.4	-1501.0	61.3	61.3	-2550.0	☑	0001	3.0	8.1	-2010
L0,11	-142.8	-1307.7	-1307.0	61.3	61.3	-2550.0	☑	0001	3.0	8.1	-2010

Status Log:

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04:22:30 PM Jan 30, 2006 > Start HV server -> port: S555
04:22:30 PM Jan 30, 2006 > INIT TIME 115 (sec)
04:22:30 PM Jan 30, 2006 > Map 'BB_SC_R' loaded from file: /adaqfs/home/adev/slowc/HV_BB/hv_maps/BB_SC_R.map
04:22:30 PM Jan 30, 2006 > Map 'BB_SC_L' loaded from file: /adaqfs/home/adev/slowc/HV_BB/hv_maps/BB_SC_L.map
04:22:30 PM Jan 30, 2006 > Map 'BB_PS_R' loaded from file: /adaqfs/home/adev/slowc/HV_BB/hv_maps/BB_PS_R.map
04:22:30 PM Jan 30, 2006 > Map 'BB_PS_L' loaded from file: /adaqfs/home/adev/slowc/HV_BB/hv_maps/BB_PS_L.map
04:22:30 PM Jan 30, 2006 > Map 'BB_SH' loaded from file: /adaqfs/home/adev/slowc/HV_BB/hv_maps/BB_SH.map
04:22:30 PM Jan 30, 2006 > genps2:2001:HVON
04:22:30 PM Jan 30, 2006 > HV monitor started -> genps2:2001
04:21:40 PM Jan 30, 2006 > genps2:2002:HVON
04:21:40 PM Jan 30, 2006 > HV monitor started -> genps2:2002
  
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(Screenshot taken from GeN GUI)

Plan for the week

- ▶ Exercise the DAQ...
- ▶ Continue TODO list by Julie in the Wiki