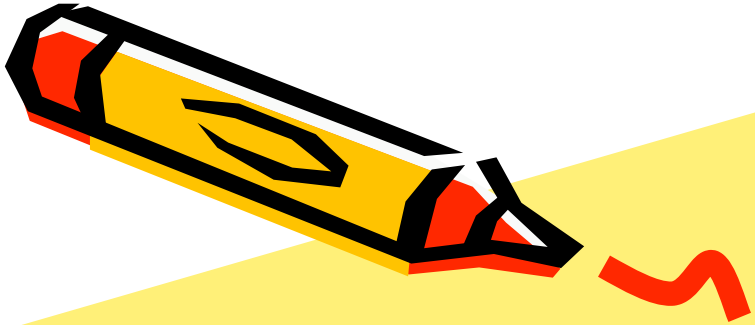


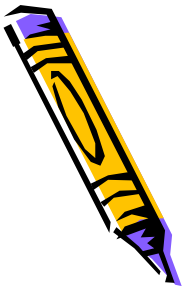
MUON DA and preprocessors status

Laurent Aphecetche

M(CH+TR)

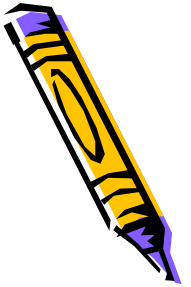
Pre-processeur	DA	SVN	DCS access	FXS	Offline tested	Online tested	(Major) Revision expected	Run Type(s)
Pedestal	MUONTRKda		NO	YES			NO	PEDESTAL
Gain			NO	YES			NO	CALIBRATION
GMS			NO	YES			NO	GMS
HV			YES	NO			NO	PHYSICS
Trigger	MUONTRGda		NO	YES			YES	CALIBRATION, PHYSICS

MCH issues



- Some concern about inability to test DCS HV preprocessor in two consecutive cosmic runs…
  - December : it was our fault (missing and/or incorrect DCS aliases), but it would have failed anyway, because :
  - February : it is probably not our fault: the SOR is incomplete and so DCS does not start archiving (HV) values
  - MUST work in April or we'll be in trouble
- Should get GMS in the game as well…

Shuttle results are in OCDB

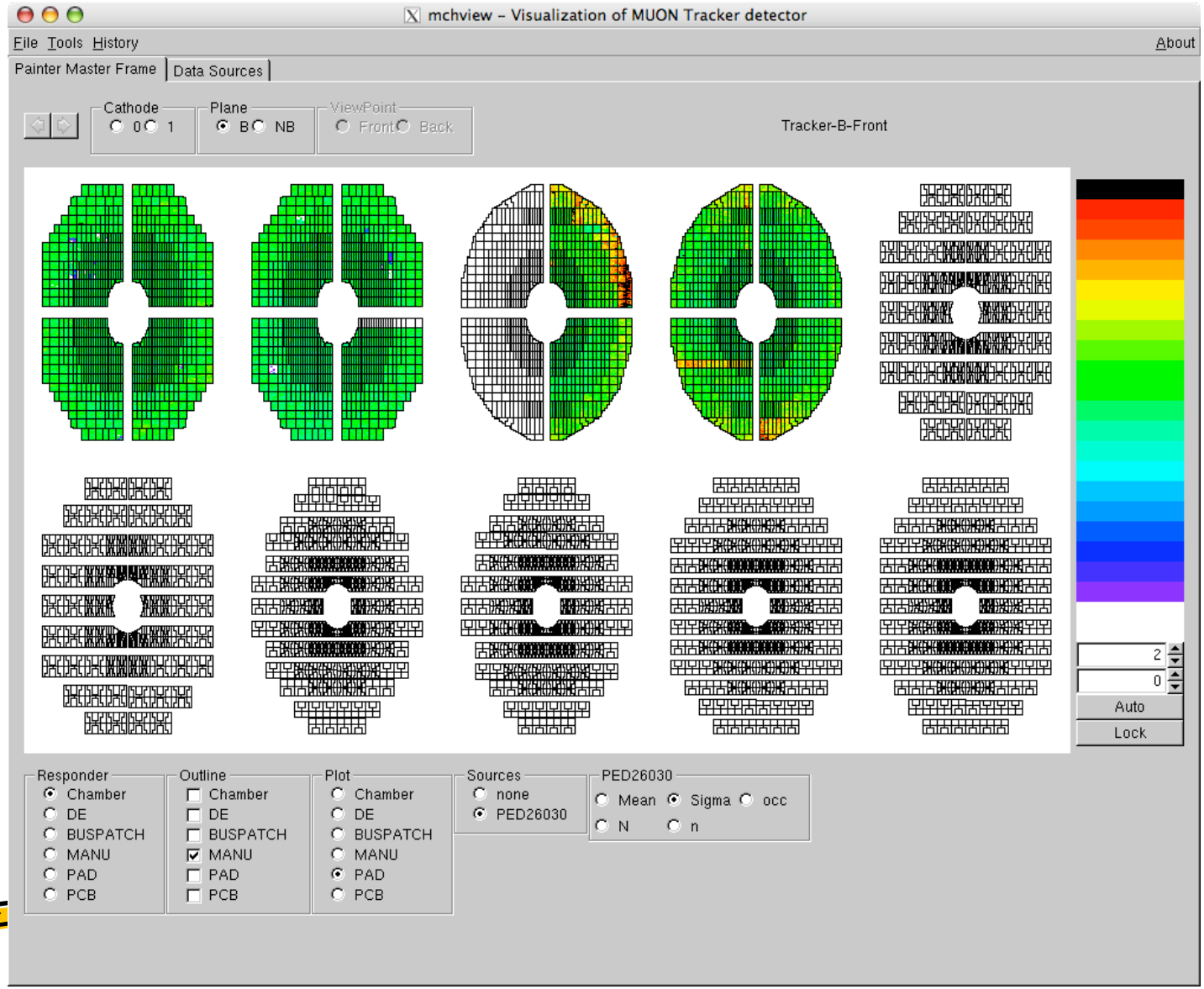


alien://folder=/alice/data/2008/LHC08a/OCDB

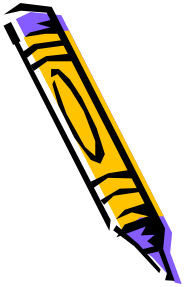
- Gain runs : 21699, 21722, 21742, 23125
- Pedestal runs :

19772,19902,19936,19975,19978,19980,20013,20123,20164,20187,20267,2036
8,20414,20551,20729,20836,20875,20891,20926,20951,20961,20999,21046,210
59,21086,21165,21193,21194,21202,21213,21251,21294,21301,21368,21376,21
386,21443,21446,21535,21542,21554,21567,21602,21620,21621,21622,21623,2
1626,21645,21711,21726,21824,21883,21919,21925,22029,22036,22041,22082,
22085,22122,22172,22219,22226,22287,22289,22294,22343,22409,22435,2247
1,22474,22484,22487,22489,22496,22499,22504,22830,22876,22894,22912,229
16,22932,22974,23026,23097,23166,23308,23317,23355,23410,23494,23501,23
503,23522,23632,23714,23736,23972,23984,23991,23996,24003,24100,24106,2
4211,24247,24253,24337,24406,24408,24414,24468,24550,24558,24562,24641,
24649,24670,24674,24685,24694,24801,24808,24830,24882,24886,24904,2490
7,24963,25000,25017,25026,25037,25246,25311,25373,25380,25385,25387,253
90,25450,25525,25535,25573,25577,25729,25769,25800,25832,25888,25891,25
893,25894,25938,25948,26019,26030

Calib data can be displayed



“Calibration” tasks



- Alignment
  - Starts from ESDMuonTracks
  - Potentially depends on next point :
- Gain
  - Not using ESD at all for *producing* gains
  - For fraction of events, ESD contains information about raw and calibrated charge of MUON digits (but only for digits belonging to clusters… but only for clusters belonging to tracks).
  - 3 options
    - No gain
    - Gain but fixed capacitance
    - Gain with channel dependent values
- Both requires re-reco pass for **validation**
  - 1 pass -> x passes if validation fails…