

Dimuon Offline Status

I.Hrivnacova

IPN, Orsay

ALICE Offline Week, CERN, 8 - 12 October 2007

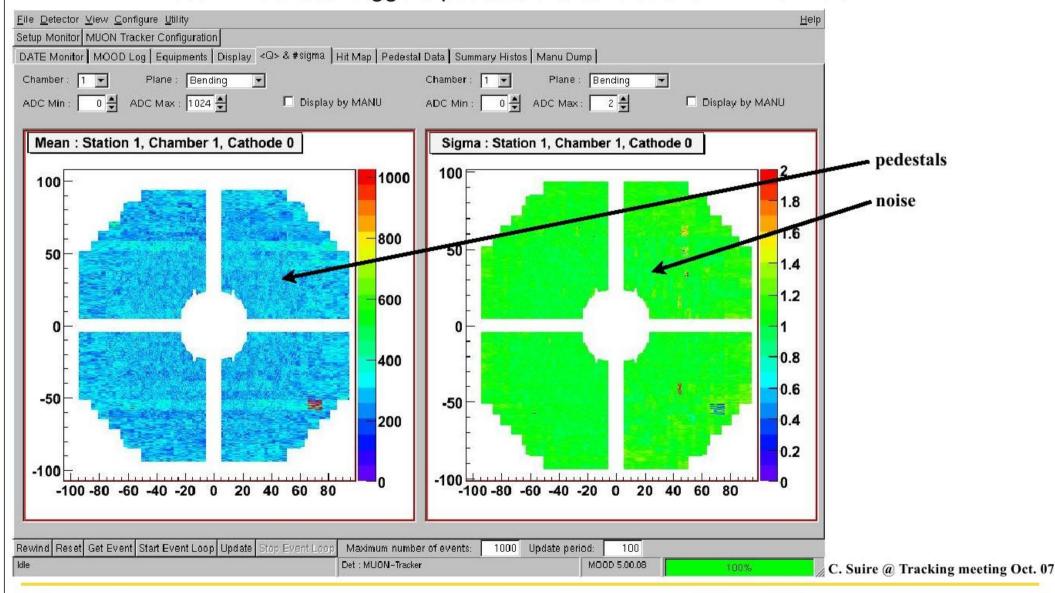
Outline

- News from Online
- Software overview
 - MUON packages (libraries)
- Recent developments
 - Mapping, Alignment, Survey
- Project schedule



MUON Tracking Commissioning

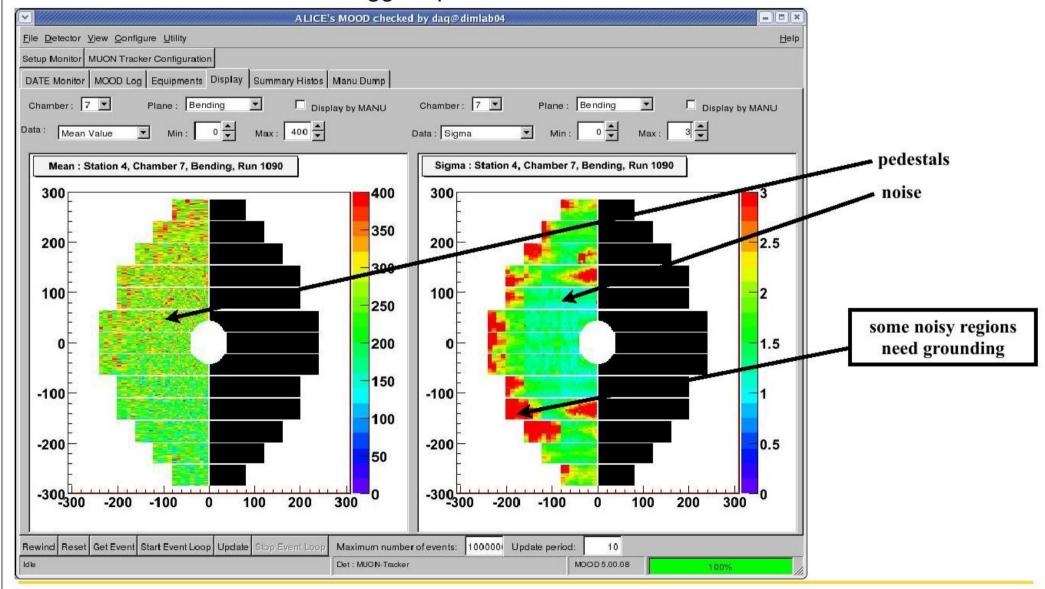
- Station 1 local commissioning (in the cavern) done
- Local LDC / local trigger / pedestals & calibration / DATE / MOOD





MUON Tracking Commissioning

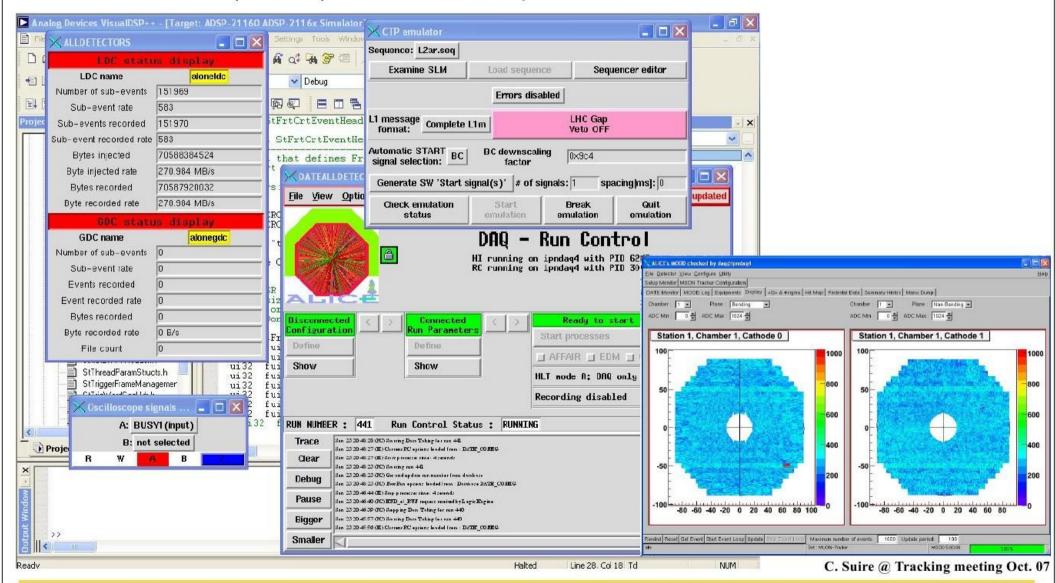
- Station 4 (first ½ chamber) local commissioning (in the cavern)
- Local LDC / local trigger / pedestals / DATE / MOOD





MUON Tracking Commissioning @ ACR

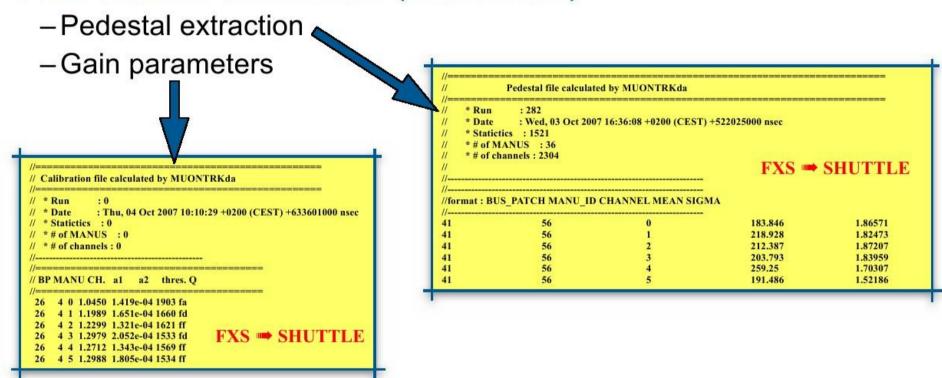
- Station 1 commissioning in the Alice Control Room
- 1 LDC (4 fibers) / CTP emulator / pedestals / DATE / MOOD





MUON Tracking DA

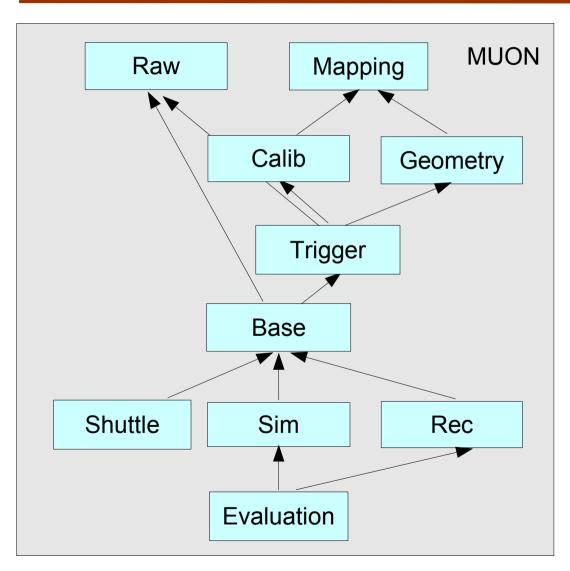
New version committed (and tested)

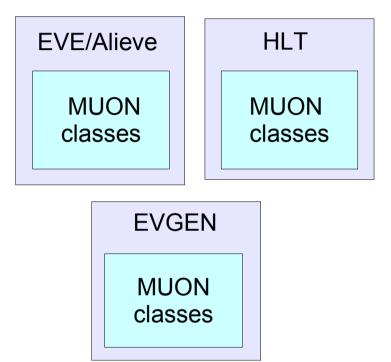


- Integration with the final ECS
 - -end of October @ CERN
 - –Using the MUON_TRK LDC @ ACR

Will be ready for the cosmic run

Software Packages





No modifications in the packages dependencies since July 07

Mapping

- Frequent updates of mapping data with commissioning
 - Both in ASCII files and OCDB
 - Adding serial manu Ids as they are installed
- Verification (with the complete test suite) that we can run only with OCDB files without ASCII files

Alignment & Survey

- From Javier Castillo:
- We have now a general approach for quadrants or slats based on local to global transformation fit plus plane fit when available
- The code is written and complies with the core team requests, i.e. reads the survey data using their interface classes and writes a CDB entry
- Right now it is in macros style so one would need one macro per halfchamber and is being rewritten in few compiled classes to be more efficient
- The code has been tested and we have final results for chambers 1, 2 and 3

Alignment With Tracks

- From Javier Castillo:
- Testing more realistic events with a variety of initial conditions but no relevant results are yet available.

Reconstruction

• The overview & new developments in the talk by Philippe Pillot on Tuesday

Project Schedule

- Shuttle preprocessor algorithm MTR LUTs, Masks
 - Shifted date to 30/10/07
 - The work on preprocessor started at mid September, when the files format was fixed
- HLT DA (responsible Corrado Cicalo, 30/04/07)
- HLT FXS Output Files (responsible Corrado Cicalo, 30/04/07)
- Documentation (31/12/07)
- ESD QA (31/07/2007)
 - The task re-opened by core team with log "Still waiting for QA framework"
- Pre-production validation (31/07/07)
 - "Validate the entire detector software (geometry, alignment, simulation, calibration, reconstruction) on the set of data produced with day-1 version of AliRoot" - too vague description to take a concrete action

Project Schedule (2)

- Geometry as installed (31/07/07)
 - Shifted date to 30/10/07
 - A piece of geometry has to be added to geometry of station 1
- Geometry outside active zone (support) (31/12/2007)

More on Dimuon Offline

- Project URL:
 - http://aliceinfo.cern.ch/Offline/Detectors/Dimuon
- Offline meetings in 2007
 - Since November 2006 meeting, we joined Offline and Online, as many current offline tasks are closely related to Online
 - Nantes, 4 6 April 2007
 - CERN, 14 June 2007
 - Cagliary, 23 25 October 2007
 - Agenda in preparation:
 - Educative presentations on mapping, trigger classes, analysis, reconstruction, mood, HLT, ...