

Artemis School on Calibration and performance of ATLAS detectors

Report of Contributions

Contribution ID: 0

Type: **not specified**

Ganga tutorial

Monday 15 September 2008 14:00 (1h 45m)

See Ganga, the tool to help you submit your jobs on the grid, live in action and learn how to use it yourself.

Presenter: ELMSHEUSER, Johannes (Ludwig-Maximilians-Universität München)

Session Classification: Ganga/AthenaROOTAccess/interactive athena tutorials

Contribution ID: 1

Type: **not specified**

Athena ROOT Access (ARA) Tutorial

Monday 15 September 2008 16:15 (1h 45m)

Athena ROOT Access (ARA) allows to directly access data in AOD format from ROOT macros or interactive athena. The tutorials shows how this is done and how this helps to quickly and interactively develop analysis code in ROOT/cint style or athena/python style.

Presenter: MENKE, Sven (Max-Planck-Institut fur Physik)

Session Classification: Ganga/AthenaROOTAccess/interactive athena tutorials

Contribution ID: 2

Type: **not specified**

ID tools: tracking, vertexing and b-tagging

Tuesday 16 September 2008 15:30 (1 hour)

The structure of ID reconstruction and analysis code is explained. The performance of the software with recent data is discussed.

Presenter: Mr SALZBURGER, Andreas (UNIVERSITY OF INNSBRUCK)

Session Classification: Inner Detector tutorials

Contribution ID: 3

Type: **not specified**

ID Status

Tuesday 16 September 2008 09:00 (1 hour)

The status and performance of the ID systems with recent data is shown.

Presenter: Mr SALZBURGER, Andreas (UNIVERSITY OF INNSBRUCK)

Session Classification: Inner Detector

Contribution ID: 4

Type: **not specified**

ID Alignment

Tuesday 16 September 2008 11:30 (1 hour)

The structure of the ID alignment software is shown. The performance and status of the ID alignment with recent data is discussed.

Presenter: BOCCI, Andrea (Duke University)

Session Classification: Inner Detector

Contribution ID: 5

Type: **not specified**

Vertexing and b-tagging tutorial

Tuesday 16 September 2008 17:00 (1 hour)

Configuration and running of vertexing and b-tagging software and the associated performance monitoring in athena is shown.

Presenter: WEISER, Christian

Session Classification: Inner Detector tutorials

Contribution ID: 6

Type: **not specified**

ID Alignment tutorial

Tuesday 16 September 2008 14:00 (1h 30m)

Presenter: CORTIANA, Giorgio (Max-Planck-Institut fuer Physik-Unknown-Unknown)

Session Classification: Inner Detector tutorials

Contribution ID: 7

Type: **not specified**

Tracking Tutorial

Tuesday 16 September 2008 10:00 (1 hour)

Presenter: Mr SALZBURGER, Andreas (UNIVERSITY OF INNSBRUCK)

Session Classification: Inner Detector

Contribution ID: 8

Type: **not specified**

Trigger performance

Friday 19 September 2008 10:00 (1 hour)

Presenter: STELZER, Joerg (DESY)

Session Classification: Trigger

Contribution ID: 9

Type: **not specified**

ATLAS Trigger System

Friday 19 September 2008 09:00 (1 hour)

Layout

Relation to LHC

Relation to DAQ

Presenter: VON DER SCHMITT, Hans (MPI for Physics, Munich)

Session Classification: Trigger

Contribution ID: **10**

Type: **not specified**

Trigger analysis tutorial

Friday 19 September 2008 11:30 (1 hour)

Performing a typical ATLAS trigger analysis is shown

Presenters: BERGE, David; STELZER, Joerg (DESY)

Session Classification: Trigger

Contribution ID: **11**

Type: **not specified**

Calorimeter and Reconstruction

Wednesday 17 September 2008 09:00 (1 hour)

- principles of Calorimetry in ATLAS
- reconstruction of cells/towers/clusters
- calibration schemes for hadronic signals
- jet making

Presenter: LOCH, Peter (University of Arizona)

Session Classification: Calorimetry and Jets

Contribution ID: **12**

Type: **not specified**

Missing ET

Wednesday 17 September 2008 10:00 (1 hour)

- reconstruction of Missing transverse energy
- cluster/cell/object based algorithms
- performance and resolution

Presenter: CANTORE-CAVALLI, Donatella (Dipartimento di Fisica)

Session Classification: Calorimetry and Jets

Contribution ID: **13**

Type: **not specified**

Calorimeter Monitoring

Wednesday 17 September 2008 11:30 (1 hour)

- monitoring algorithms on digi/cell/cluster/jet level
- dead and hot cells
- impact from noise and PileUp

Presenter: KEHOE, Robert (Southern Methodist University)

Session Classification: Calorimetry and Jets

Contribution ID: **14**

Type: **not specified**

Calorimter Reconstruction Tutorial

Wednesday 17 September 2008 14:00 (2 hours)

- Cluster making
- Cluster Calibration
- Jet Making
- Jet Calibration
- Missing ET reconstruction

Presenters: CANTORE-CAVALLI, Donatella (Dipartimento di Fisica); LOCH, Peter (University of Arizona); MENKE, Sven (Max-Planck-Institut fur Physik)

Session Classification: Calorimetry and Jets tutorials

Contribution ID: 15

Type: **not specified**

Calorimeter Monitoring Tutorial

Wednesday 17 September 2008 16:30 (1h 30m)

- noise, energy, bad cells monitoring
- ...

Presenter: KEHOE, Robert (Southern Methodist University)

Session Classification: Calorimetry and Jets tutorials

Contribution ID: **16**

Type: **not specified**

Electron & Photon Reconstruction & Calibration

Thursday 18 September 2008 09:00 (1h 30m)

- eGamma reconstruction
- sliding window clusters
- track matching
- energy isolation
- calibration

Presenter: FROIDEVAUX, Daniel (CERN)

Session Classification: Muons, Electrons and Photons

Contribution ID: 17

Type: **not specified**

Muon Reconstruction & Calibration

Thursday 18 September 2008 11:00 (1h 30m)

- mdt/csc/rpc reconstruction
- MDT calibration
- MDT alignment
- muon tracking

Presenter: KORTNER, Oliver (Max-Planck-Institut für Physik)

Session Classification: Muons, Electrons and Photons

Contribution ID: **18**

Type: **not specified**

eGamma tutorial

Thursday 18 September 2008 14:00 (1h 30m)

- running eGamma reconstruction
- calibration of electrons and photons
- track matching and energy isolation criteria
- selection of loose/medium/tight electrons and photons
- impact on efficiency, mass resolution

Presenters: FROIDEVAUX, Daniel (CERN); KERSCHEN, Nicolas (University Of Sheffield)

Session Classification: Muons, Electrons & Photons tutorials

Contribution ID: **19**

Type: **not specified**

Question and Answers

Thursday 18 September 2008 16:00 (1h 30m)

Collect and discuss open questions which have accumulated over the course of the school. All lecturers and tutors should be present if possible.

Presenter: KLUTH, Stefan (Max-Planck-Institut für Physik)

Session Classification: Muons, Electrons & Photons tutorials