

**ALICE QUARTERLY REPORT**  
**2008Q4**

# Summary

- Data Taking
  - Stopped in October 2008 to be restarted in June/July 2009
- Data Processing
  - Several reconstruction passes of cosmics data, subsequent analysis
- MC Data Production
  - On demand productions in preparation of 2009/2010 data taking
  - Analysis
  - CAF (fast), analysis train (organized) and end user analysis (chaotic)
- Software: AliRoot
  - Monthly release schedule, significant changes reflecting 2009 geometry
- Services
- Milestones

# Data taking

- Planned intervention (cabling modification, installation of additional detectors) - data taking stopped in **October 2008**
  - Total data volume acquired during Q4: 100TB
  - All Tier0 tasks were continuously run (except RAW replica to T1s – spot checks)
  - On-line condition parameters gathering OK (DAQ, HLT, DCS)
  - On-line reconstruction of a sampled set of data run synchronously with data taking
  - On line Monitoring and QA is partly ready
    - Framework operational
    - Detector implementation in progress
- Data taking (cosmic) with complete detector will resume in (preliminary schedule) **June 2009**

# Data processing

- All collected cosmic – Pass 1 reconstructed
- Additional reconstruction passes of selected samples of cosmic data
  - done with updated reconstruction algorithms and condition parameters
  - In Tier0 and Tier1
- Reconstructed ESDs available on the Grid and at 2 AF (CERN & GSI)
- Data processing (cosmic) with complete detector will resume in **June 2009**

# Data transfers

- Periodic tests of FTS/FTD from Tier0 to Tier1s
- Migration to the new FTS completed

# MC Data

- Only run if needed (no “keeping processors warm” strategy)
- Large production for EMCAL PPR in progress
  - pp various signals
  - Run unattended over Xmas
- End user analysis
  - Studies of various type of SE performance: tuning of SE parameters per site
  - Ever increasing number of users, ~80 users at any time at end of 2008

# MC Data (2)

- Production of PbPb, two impact parameters classes,
  - Also used for embedding
- Continuous MC over the whole year
  - Large pp Min Bias productions to be started as soon the LHC plans are known (energy)
  - Several smaller “first physics” productions
  - AA productions depending on 2009/2010 LHC plans

# Software: AliRoot

- Code refactoring
  - Simplified data access
  - Introduction of Cmake
  - Corrected usage of polymorphic containers
- Overlap free geometry
- PROOF based parallel reconstruction
- Further development of analysis framework
- Calibration & alignment with cosmics data
- Code validated on many platforms, Linux flavours and compiler versions



# Services

- New version of AliEn deployed in December
- Job submission using only WMS
  - Tuning of submission parameters is ongoing (following Christmas exercise)
  - Additional WMS instances needed around the world – WMS provided at CERN, NIKHEF, RDIG, GridKA
- CREAM CE deployment is ongoing, but slow
  - CREAM CEs at GridKA, Kolkata, Subatech, IHEP (RDIG)

# Milestones

- New milestones
  - No pending milestones
  - MS-129 Mar 09: Analysis train operational
  - MS-130 Jun 09: CREAM CE deployed at all sites
  - MS-131 26 Jun 09: AliRoot release ready for data taking