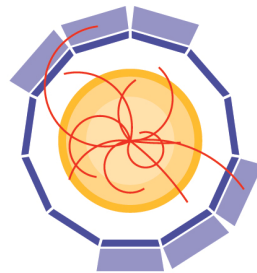
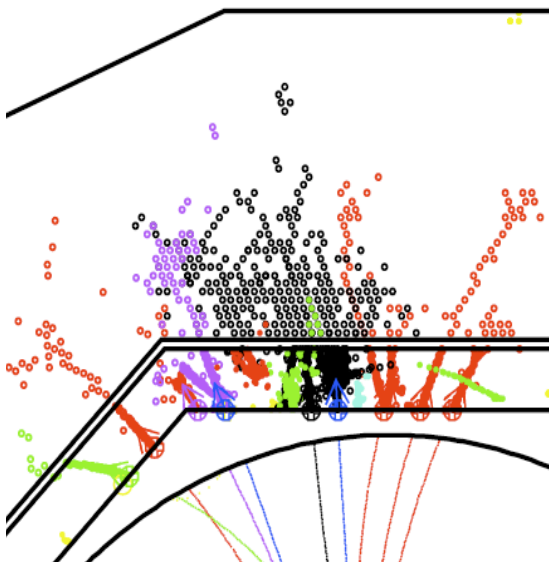


Work Package 9 Task 9.5: Granular Calorimeter Studies Infrastructure

Felix Sefkow



AIDA

AIDA 2nd Annual Meeting
Frascati, April 10-12, 2013



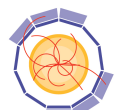
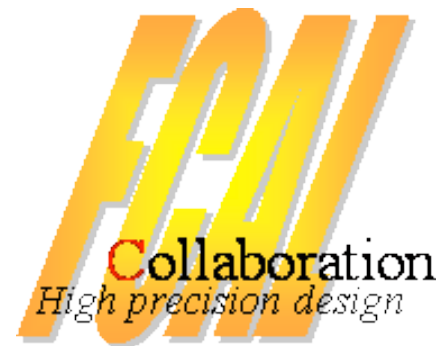
Introduction

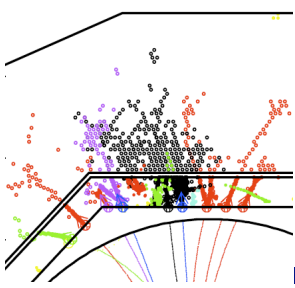
- New sub-task leaders
- Deliverables and Milestones
 - Description of work
- Test beam



Sub-tasks

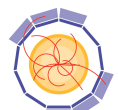
- ECAL: D. Jeans → **Roman Poeschl**
 - LLR, LPSC, IPASCR
- AHCAL: E. Garutti → **Katja Krüger**
 - CERN, DESY, MPG-MPP, IPASCR, UIB, Wuppertal
- DHCAL: Imad Laktineh
 - LAPP, IPNL, LPC, CIEMAT, UCL
- FCAL: Wolfgang Lohmann
 - CERN, DESY, AGH-UST, IFJPAN, TAU
- FEE: Nathalie Seguin-Moreau
 - LAL, UHEI
- TBM: Erik van der Kraaij
 - CERN, DESY, UCL, CIEMAT





Description of Work

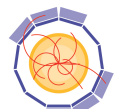
- Mechanical structure to place and move elements
 - CERN, DESY, UCL, CIEMAT
- Lumical structure, W radiator and ASICs
 - DESY, TAU, AGH-UST, IFJPAN
- ECAL extension of the EUDET module
 - IPASCR, CNRS-LAL, -LPSC, -LLR
- Hadronic structure with tungsten radiator and services
 - CERN, DESY, Wuppertal, MPG-MPP, IPASCR, CNRS-LAL, -IPNL, -LAPP, -LPC, UIB, UCL, CIEMAT





Milestones

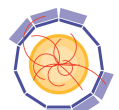
- MS 42 Gas system, control and bench structure
 - due month 24 (**Jan 2013**), lead CNRS-LAPP
- MS 43 3rd generation fast read-out chips
 - due month 30 (**Jul 2013**), lead CNRS-LAL
- MS 44 Multilayer tungsten structure with position control and monitoring for forward calorimeters
 - due month 30 (**Jul 2013**), lead DESY-Z
- MS 45 Calibration and power supply system
 - due month 36 (**Jan 2014**), lead UIB
- MS 46 Electromagnetic calorimeter of at least 18x18cm² area
 - due month 36 (**Jan 2014**), lead CNRS-LLR
- MS 47 Multichannel readout ASICs for luminosity detector
 - due month 40 (**May 2014**), lead AGH-UST

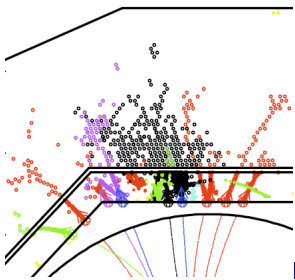




Deliverables

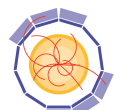
- D 9.7: Integrated infrastructure for highly granular calorimeters
 - Due month 40 (**May 2014**), lead DESY
- D 9.9: Adequation of Geant 4 simulation of hadronic showers in different media (report)
 - Due month 46 (**Nov 2014**), lead DESY
- In WP 9.1, but probably requesting input:
- D 9.8: Infrastructure performance and utilization (report)
 - Due month 46 (**Nov 14**), lead CSIC



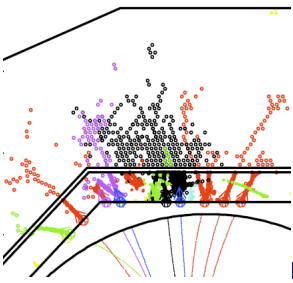


Test Beam

- No beam at CERN in 2013
- Reduced beam at CERN in 2014 (if at all):
 - SPS 9 weeks
 - PS 4 months
- DESY overbooked
 - no beam Sep-Dec 2013
- CERN SPSC asks for AIDA requests
 - related to deliverables
- USP: do the same for DESY, to help to set priorities
 - use allocated beam times!



Partners



- CERN
- UCL - Louvin
- IPASCR - Prague
- CNRS
 - IPNL Lyon
 - LAL Orsay
 - LAPP Annecy
 - LLR Palaiseau
 - LPC Clemmont
 - LPSC Grenoble
- DESY
 - UHEI (third party)
- MPG-MPP Munich
- Wuppertal
- TAU Tel Aviv
- UIB Bergen
- AGHUST Kracow
- IFJPAN Kracow
 - CIEMAT Madrid (3rd p)

