

SiW Ecal – Mid-2009 status and perspectives



Roman Pöschl LAL Orsay

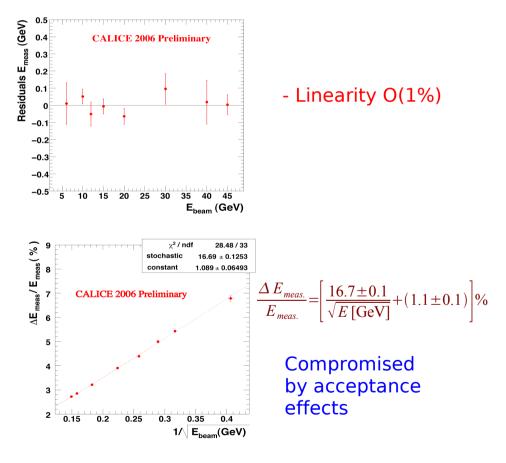
- Publications
- EUDET Prototype
- Perspectives for 2009 and beyond

CALICE SiW Ecal Meeting UCL London/UK June 2009

Analysis and Publications

Response of the CALICE Si-W Electromagnetic Calorimeter Physics Prototype to Electrons

Editor in Chief: C. Carloganu, LPC



- "Response" paper submitted to NIM Referee comments not trivial
- Fate of Shower Profile Paper?
 -> Talk by David
- Irradiation Paper Finalize "Conference" Paper after FNAL Review Meeting MC?
- Position/Angular Resolution Paper

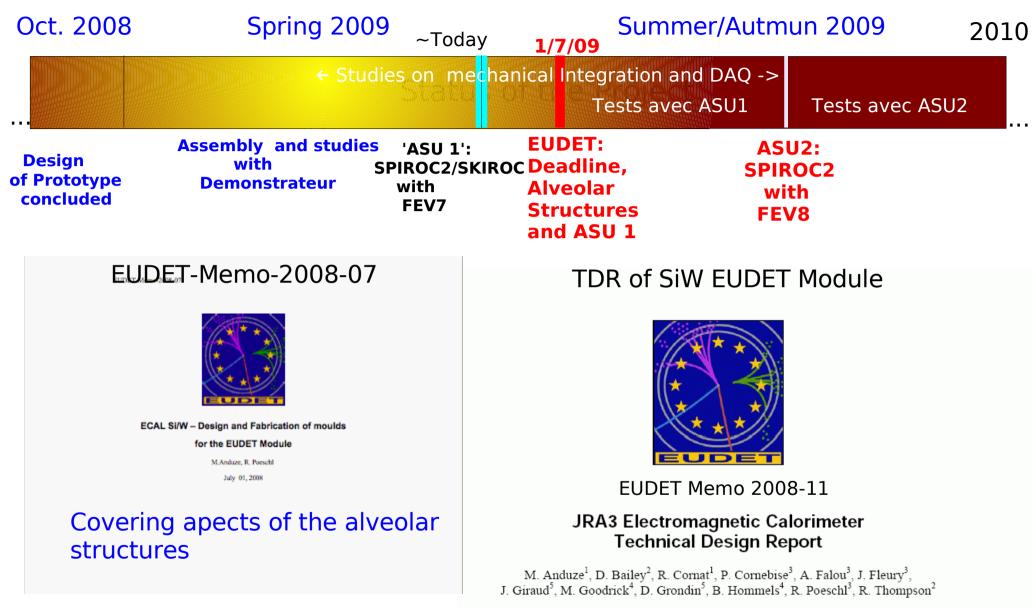
Analysis resumed by <u>Michele/</u>Kaloyan/Manqi Hopefully fast progress

- 2007 Data

Intensive analysis efforts started Digitisation taken over by Kaloyan

- 2008 Data Philippe Doublet's talk

EUDET Module – Next Calice Prototype



Detailed Technical Design of EUDET Module Now also EUDET-Report-2009-01

Calice Collaboration Meeting Feb. 2009

1st half of 2009 – Construction of Mechanics Demonstrator

The crew (mainly) working on the Ecal EUDET Module

Missing: D. Bailey, R. Thompson J. Bonis

Photo shot during interconnection tests/studies at LAL Orsay 12/1/09 - 16/1/09

Since ~April 2009 (Better) Synchronisation of mechanics and electronics

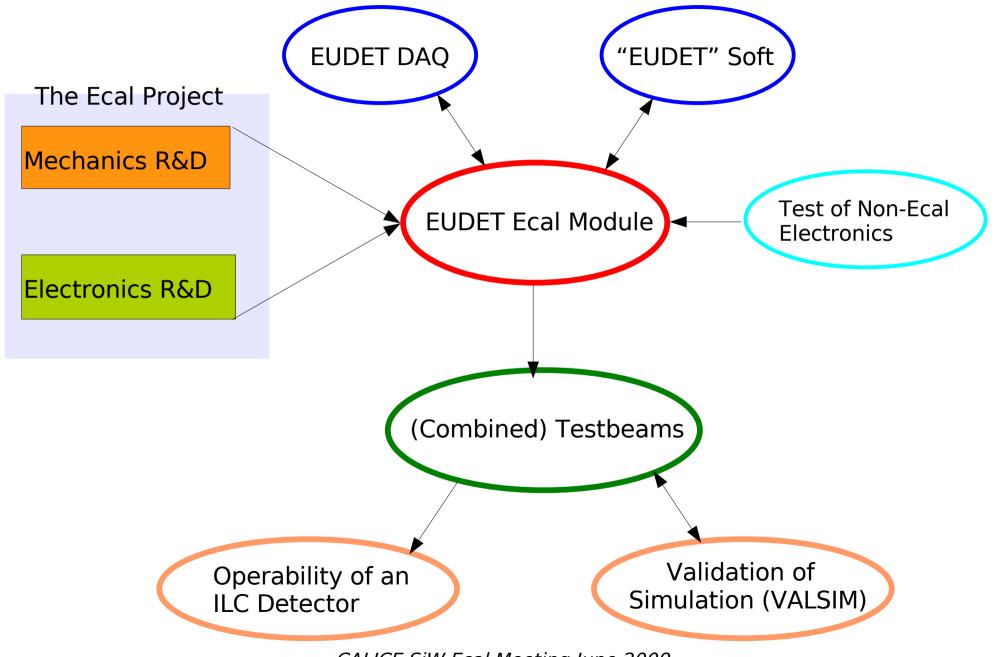
More details this afternoon

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- Missions between colleagues from different countries should be organised as "Transnational Access"
 - → Funding by EUDET, Necessary in view of EUDET contract
 → Even more important for institutes which are not member of EUDET consortium
- Need to be preceeded by a short proposal on mission
 Very likely to be approved by EUDET SC

Please plan international SiW Ecal missions through Christophe de la Taille and R.P.

EUDET Module and Transnational Access - > June 2009



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The EUDET Deadline and beyond

- Deadline for EUDET deliverables 30/6/09

Ecal Calorimeter is deliverable – We clearly fail (for good reasons) to meet this goal

 Mechanical aspects will be covered by demonstrator
 With insertion of thermal layer into alveolar structure we will have proven that we can build large structures
 First alveolar layer for EUDET Module under construction

 Working on a setup with somewhat simplified electronics (Packaged) SPIROC Chip in SKIROC mode on a FEV7 variant Results until end of July FEV7 for Chips on board for September Once validated work towards SKIROC2 and FEV8 Progress on electronics determines rhythm of EUDET Module construction See also talk by S. Callier (R. Cornat)

Priorities for 2009

Top Priorities:

- 2009 should remain the analysis year!!!
 - Finalising of shower shape analysis
 - Analyses of 2007 Scope/Aim of analyses?
 - Hadrons in the Ecal Exploration of high granularity
 - Tighten the interplay with full detector studies

- Towards Construction of EUDET Module

- Development of Front End Electronics and interface to Calo DAQ2 Highest Priority due to considerable delay (Manpower strengthened)
- Needs to be accompanied by software/analysis effort by late summer '09
- Mechanics development to be pursued We are in a good shape there
- Construction until end of 2010 Progress might be compromised by tight budgets

Very important:

- Prepare Testbeam at FNAL with US-DHCAL towards middle of 2010 !?
 - Completion of first round of CALICE Program
 - Please reserve some resources in your travel budget!
 - Repair of Physics Prototype ongoing, not time critical
 - Efforts depend on speed of US-DHCAL

- Preparation of next round of test beams

- Definition of Programs
- Preparing the requests of beam times
 (I)LC Testbeam meeting First week of november 09

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Priorities for 2009

To be put more in the Focus:

- "Off" mainline activities: Alternatives in VFE
- Work on SiW Ecal detector endcaps

Latest by SiW Ecal December Meeting

- Conclusions from LOI (after IDAG validation)
- For the time being pursue EUDET Module construction as planned

SiW Ecal Coordination will be shared between R.P. And Daniel Jeans with more and more tasks delegated to Daniel