

SiW Ecal Run Plans for CERN



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- Quick Review on 2006 Data Taking
- Things to be done for CERN
- Summary and Outlook

Quick Review on 2006 Data Taking

DESY:

7 Energy Points 1, 1.5, 2, 3, 4, 5, 6 GeV

5 Angles 0, 10, 20, 30, 45 degrees

Roughly: 100000 Events at each points

Different impact positions

CERN:

9 Energy Points 6, 10, 15, 20, 30, 45, 50, 60, 80 GeV

4 Angles 0, 45, 30, 20 degrees

Roughly between 500000 and 1000000 events at each point

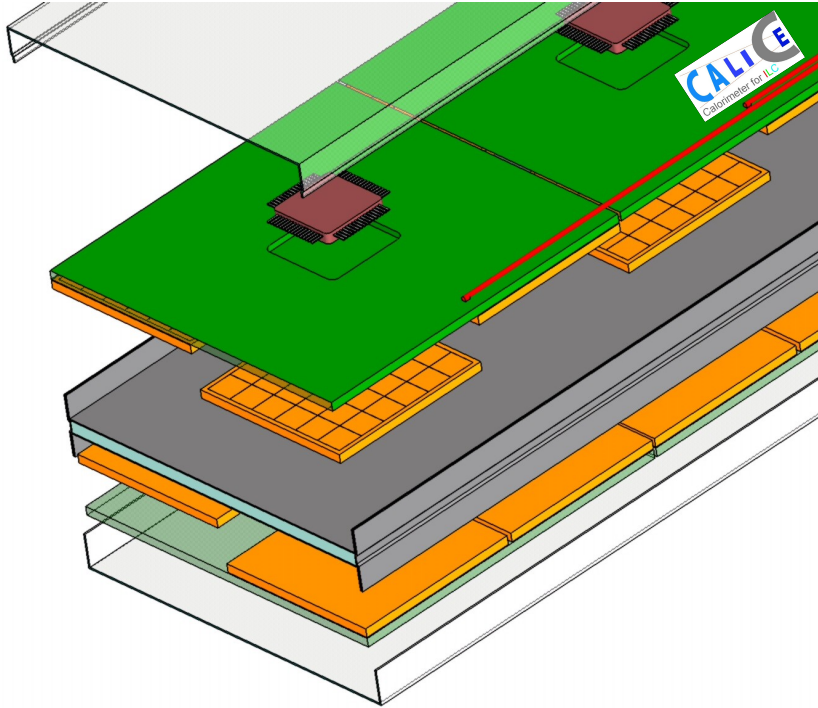
For a detailed overview see M. Ruans report to the calice-sw list 8.Dec. 2006

So far no one has complained that any of these points suffer from bad statistics. Available data allow for generous cuts.

'Non Zero' angular impact very weakly exploited so far

Plans for 2007 Data Taking – General Remarks

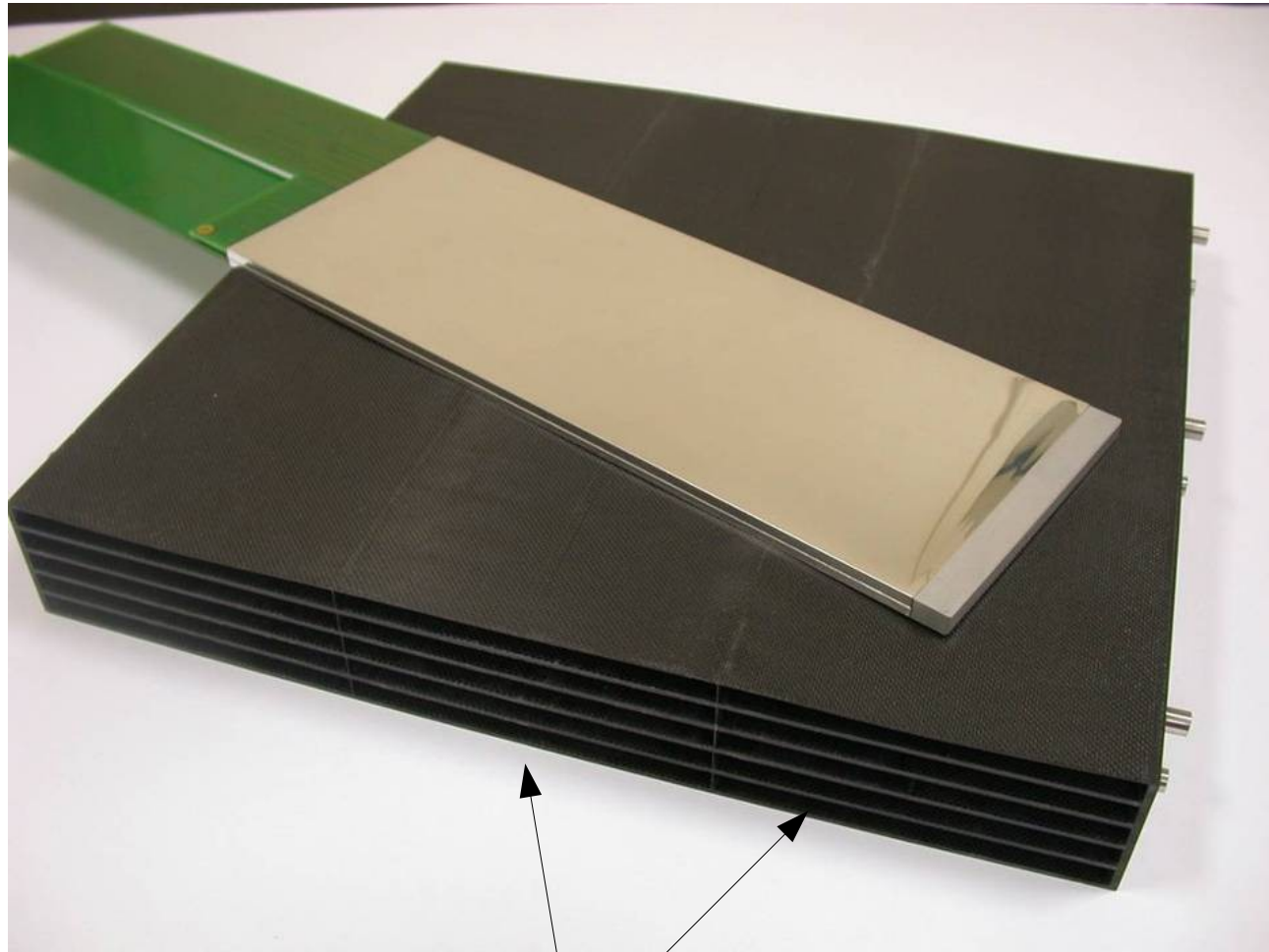
- Most important measurement: Test of PCB with new Readout Chips



- Readout Chips interleaved with absorber and sensitive parts
- New technology
Never tested so far

- Ecal will be (nearly) fully equipped lower slabs expected to be ready by End of June
Measurements of impact points at interalveola transition
- Alternative staggering
Would imply several runs with 'old' staggering

Alveoala structure



Slits for Slabs

1st Running Period at CERN

SPS Operation

Period 2 2007 Jun 18 to Jul 22

Schedule issue date: 12-MARCH-2007

Version 2.1

(colour code: purple (dark) = scheduling meeting , light green (light) = weekend or holiday)

		Mon 18	Tue 19	Wed 20	Thu 21	Fri 22	Sat 23	Sun 24	Mon 25	Tue 26	Wed 27	Thu 28	Fri 29	Sat 30	Sun 1	Mon 2	Tue 3	Wed 4	Thu 5	Fri 6	Sat 7	Sun 8	Mon 9	Tue 10	Wed 11	Thu 12	Fri 13	Sat 14	Sun 15	Mon 16	Tue 17	Wed 18	Thu 19	Fri 20	Sat 21	Sun 22			
Machine		8								8	8							8	8						8	8								8	16			22	22
		Scrubbing & PS MD								SPS				PS & TT40/60				SPS				PS				T12/8													
NORTH AREA	T2 -H2	CMS-SI R&D								CMS Combined																													
	T2 -H4	8h DREAM EA Test				16h DREAM				8h ECC				8h AMS-RE1				8h SITRD																					
	T4 -H6	8h ALICE ZDC				8h RD42				8h CALICE				8h ALICE ECAL																									
	T4 -H8	8h EA Test		8h LHCb				ATLAS LUCID				ATLAS BCM				ATLAS ZDC																							
	T4 -P0	8h P326																																					
	T6 -M2	8h COMPASS																																					
-CNGS	8h CNGS start subject to SPSC																																						
For further information contact the SPS/PS-Coordinator																																							
		<p>Remarks SPS/PS-Coordinator: Christoph Rembeer E-mail: SPS.Coordinator@cern.ch phone: 73113 (ext. +41 22 767 3113) mobile: 160497 (ext. +41 76 487 0497)</p>																																					

We would like to make use mainly of the first running period 4th - 18th July 2007 = 14 days – 1 day of machine studies
 Can the RD42 phase be used for muon runs? - General Issue !!!!

Detailed Running Schedule

Day 1-3: Start of Running

Debugging, Alignment Phase and electron running at 5 Energy Points at 0 angle
~200k (good) Events per point

Day 4-5: Test of new PCBs

Running at highest electron and pion Energies

New PCB is to be placed at up to 5 positions within the shower
with priority on the positioning in the shower maximum

~1000k Events

Day 6-7 Potential Restaggering (can be made before day 5)

and re-measurement of the 5 energy points mentioned above
+ a 6 GeV Run to prepare a tentative DESY Running towards
the end of the year.

Again 200k of good events per point.

Day 8-10: Intervalveola tests

Positioning of beam between alveolas and measurement for
(at least) 3 Energy points and 3 angles – 1000k events per point
again a 6 GeV e- running would be desirable

Day means 24h where possible

This planning gives us 3 spare days as airbag in case of unforeseen problems
and may give room for Hcal activities.

Program on Day 1-3 and Day 6-7 can be reduced to give room for the
completing of the two main points of the program

Clearly, in case of severe (machine) problems part of the program will
have to be shifted to the phase 2 of the running