

# SiW Ecal Readiness for 2010 data taking



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- Data taking at FNAL (Short Review on 2008)
- Towards 2010
- Manpower
- Summary and Conclusion

CALICE TB Review Meeting FNAL June 2009

## **Detector Installation in 2008**



- Installation of SiW Ecal started on April 18<sup>th</sup> 2008
- Equipment ready by 25<sup>th</sup> of April Ready to accept beam on the 29<sup>th</sup> of April
- Setup Combined effort of DESY, Uni Heidelberg, NIU, <u>LLR, LAL</u> and FNAL
- Setup comprises SiW Ecal, Ahcal and TCMT plus beamline equipment

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## "Luminosity" - Recorded Data



### Impressions from the Ecal Running 2008



#### Ecal Noise largely tamed (Required frequent intervention) But then No noisy layers for > 90% of time

Noise seem to be caused by power connectors, will try to replace them in Winter 2009/10 CALICE TB Review Meeting June 2009

Hit Maps ...



Marcel Reinhard, LLR Dead Cells in bottom layers – Main reason for repatriation of Ecal Studies for repair work 2<sup>nd</sup> half of July 2009 at LLR

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## - Setup phase

Not more than three days including electronics commissioning Would need support (at least from remote) for computing

- 2 3 days of cosmic running
- Should concentrate on data taking with hadrons Maybe 1 day dedicated electron running for reference Combined hadron testbeam ~3 Weeks
- => Total time for Testbeam with SiW Ecal ~4 Weeks
- Reduced funding forces us to deploy only a minimal team of experts
  - No large shift coverage on place by SiW Ecal groups possible
- Establishment of a remote control room in France Will have to make heavy use of that

### The four Ecal Weeks



- Given the experience from the past I believe that we can shoulder the testbeam period with four persons
- The Ecal Expert II may need a local helping hand during disassembly takes  $\sim 1/2$  day including stowing in crates

## Summary

- Combined SiW DHCAL running at FNAL is vital (and indispensable) part of CALICE program
- SiW Ecal prototype is operational and can be shipped back to FNAL and switched on at any time
- Verification of dead areas in bottom part of detector 1-2 Months (could be omitted if time would be pressing)
- Try to improve the noise situation (which was already quite good during 2008 running)
- Need to take reduced funding for ILC into account for shift plans Remote control is central to realisation of testbeam
- Need to avoid conflict with the construction of the Technological Prototype Staff to be deployed for Testbeam is or will be heavily employed in construction of Technological Prototype