ILC on the NAF

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NUC Face-to-Face@DESY
11th November 2009
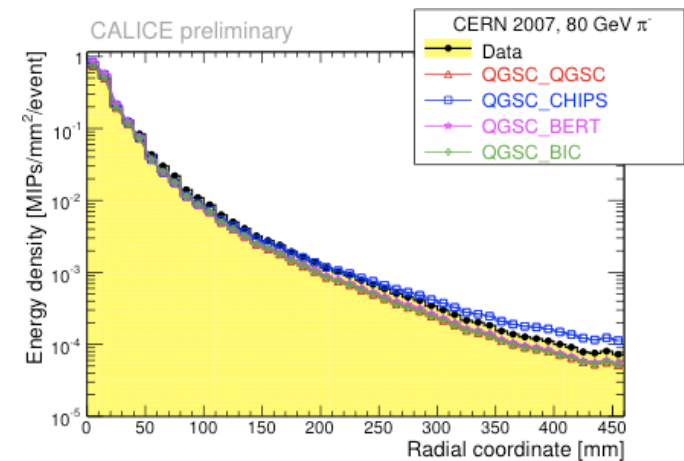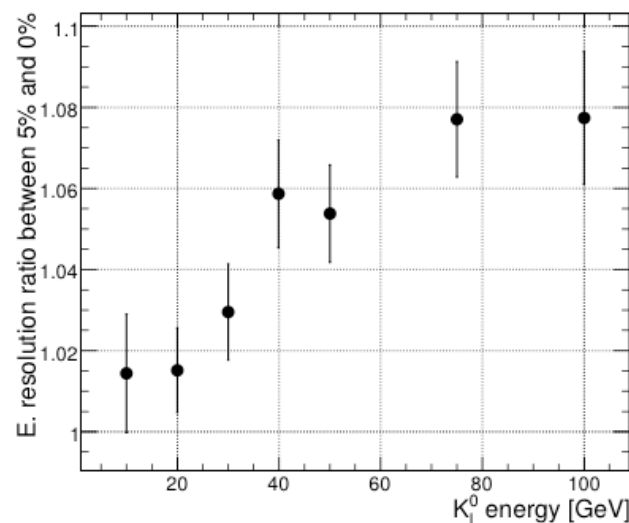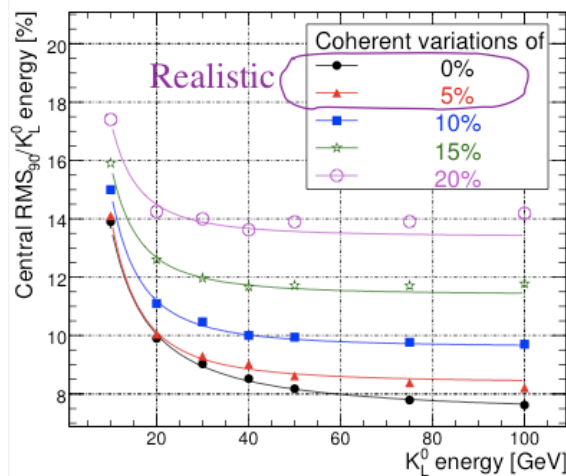
ILC NAF User Base

- 28 ILC Users Registered for the NAF

- 23 of these are resident at DESY

- The others are spread across different institutes

- Slow-yet-Steady take up

ILC's view of the NAF

- Great. It really provides a very useful tool.
- We need the Grid resources for MC production and do not want to impede that, therefore the NAF provides us with large computing resources on demand.
- The flexibility and reliability of the NAF allows a problem to be attacked quickly, even perhaps in a Brute-Force approach, where a procedure is not yet established, this would be very time consuming on the Grid.
- Used extensively during the preparation for the LoI, we were able to put our complete ILD LoI data set in "cut down" form on the LUSTRE.
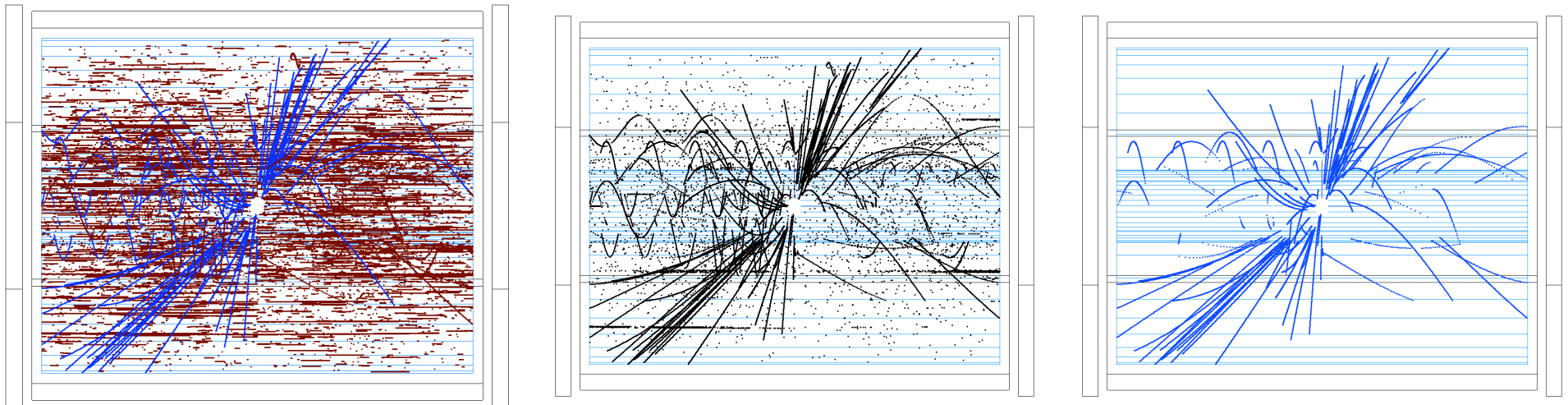
Typical Use Cases

- Examples using Testbeam Data:
  - effect of coherent fluctuations (e.g. due to temperature) on energy resolutions in case of single particles
  - lateral profiles in CALICE tile HCAL

Typical Use Cases

- Example of Reconstruction algorithm development and analysis:
  - TPC Background Survival
  - required ~ 500GB

User Comments

- What is the optimal use of the LUSTRE space, how about Quotas?

- How "Scratchy" is the LUSTRE space?

- Where excactly should we put our log files?

- Is ssh –A like behaviour possible when logging in?

- The RFC compliant proxies created by auto-proxy have caused some headaches.

- Very happy with the SGE_TASK_ID variable from SGE, makes parralelizing jobs much simpler.

- Use of gsidcap makes things very easy for access to the DESY SE.

Plans for the Future

- Technical Design Report (TDR) will be submitted by the end of 2012.

- This will require similar studies as done in the LoI, although background studies will play a much more prevalent role – which means of course much slower jobs.

- Analysis procedures will need to be refined.

- Test-beam programs, not just CALICE, will have to deliver somewhat definitive results for the TDR.

- Dealing with 32bit and 64bit worlds.

- Improving our ILC NAF webpage.

Summary

- Both the ILC and CALICE VO's are very happy with the unique facility which the NAF offers.

- No problems seen during SL4 to SL5 migration by either VO.

- Appologies for the slow take up of ilc:/ilc/de and calice:/calice/de, somewhat misunderstood, this will be used in future.

- Thanks, "More of the Same Please…"