

Minutes of the EUROTeV Phone Meeting

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Participants: *Ph. Bambade, G. Blair, H. Burkhardt, O. Dadoun, A. Faus-Golfe, M. Pedrozzi, J. Resta López, C. Rimbault, D. Schulte, N. Walker, V. Ziemann.*

1 General news

It is planned to hold post collision line meetings on Mondays. It was also stressed the need to benchmark post-collision codes (*Philipe*) and document it.

The lattices and input files will be collected on a website. The links to the last optics versions will be maintained by tasks and they will be available from the ILPS webpage. On the other hand, it is necessary to make results available on ELAN-BDYN code repository. Volunteers?

Similarly, other benchmarks also are required.

Grahame announced the LC Collimation Meeting that will be held in Daresbury. The details can be found on the web:

<http://www.astec.ac.uk/ap/collider/collimmeet15Feb05/>.

The plan for this meeting includes discussions on the following issues:

- BDSIM code.
- ILC extraction line.
- Collimation systems and performance for LC, with special attention to ILC.

Helmut presented the workplan for the group task HTGEN. He presented a list of halo and tail generation mechanisms: *particle processes*, as example synchrotron radiation (coherent and incoherent), beam gas elastic and

inelastic scattering, etc.; *optics related*, as example non-linearities and mismatch; and *equipment related*, as noise and vibration. See more information at <http://hbu.home.cern.ch/hbu/HTGEN.html>. There is a candidate for the fellow position on halo and tail generation.

At this point, the importance of publishing the postdoc positions was mentioned. The postdoc positions should be announced on all main web-pages: EUROTeV, CERN, DESY, etc.

Nick informed that a postdoc with experience on bunch compressors have been hired. They are compiling documentation and contact with experts from LBNL will be established.

It was commented that a realistic simulation for the machine is important considering bunch compressor voltage failures, failure modes associate to the RF modes from the main linac and kickers system failures related to the extraction line. ACTION:

- Feedback.
- Permanent DC dipoles.
- Very fast kicker system.
- Machine protection system. It would be interesting to study the impact of the failure modes on the collimation system design.
- Impact on the luminosity stability.

For the study of the failure modes *Daniel* and *Nick* suggested as a first step to get the tools ready, considering first simpler linear optics and later introducing the non-linearities.

Philippe commented that *Cecile Rimbault* has already started to learn the Guinea-Pig code, version 1.1. *Daniel* sent her the latest version. ACTION:

- Develop a web page for the code Guinea-Pig in collaboration with *Daniel*.
- Include the option for polarized beams in Guinea-Pig.

2 VRVS and the communication issues

Two different opinions: on one hand, VRVS requires a lot of time for preparation; on the other hand, the preparation of VRVS could be fast if the main elements are available and work properly: microphone, camera and videoconference room.

Daniel suggested to send documents (slides, information, etc.) to his email address if someone has technical issues to discuss.

The next meeting was fixed on **2nd March** at the same time, 15:00 h.