

# Minutes of the Phone EUROTeV Meeting

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Participants: *R. Appleby, Ph. Bambade, G. Blair, O. Dadoan, P. Eliasson, A. Faus-Golfe, A. Ferrari, M. Pedrozzi, J. Resta López, D. Schulte, N. Walker, V. Ziemann, F. Zimmermann.*

Finantiation should start to arrive next month, and it was pointed out that a consortium agreement among the involved institutes is necessary. A workplan for the first six months needs to be prepared to achive the 1st milestone in June 2005. Discussions included the following main items:

- People to be hired.
- Workplan.
- Meetings and workshops.
- Organization and agenda.

*Daniel* commented that a phone meeting at the end of last year showed an overlap between Japan, USA and EU.

*Grahame* and *Daniel* will organize an ELAN meeting on 20-23 June in England. They and Nick will discuss the possibility of adding an EUROTeV workshop day at the end, including discussions of the different work packages.

It was also reminded that the Snowmass meeting has been announced for 14-27 August.

*Daniel* suggested that the task reporters ensure the communication within each task. He proposed a phone meeting of the whole workpackage every few weeks. At this point, there were splited opinions:

- On one hand, many of the participants think that video conferences are more adequate for presentations of work results.
- On the other hand, Philip thinks that video conferences would be a good system for presentations, however it takes time to set up. An alternative way may be a phone conference plus material on the web.

- Finally, *Nick* suggested to try at sometime a video conferences in small groups.

The organization of the website and the agenda planing were discussed:

- *Volker* stressed the need of a main webpage with links to subpages which are maintained on the task level. A workpackage page can be found via <http://www.eurotev.org> . It would be further convenient to have an automatic meeting registration by email.
- *Nick* pointed out the need of manpower (scientific secretary).
- Although there is no automatic agenda yet, it will be organized at the EUROTeV level. *Javier* will make an agenda with the information received via email from every task reporter.

## 1 Workplan

*Daniel* asked the tasks to provide a workplan for the next six months. Reporters reviewed the preliminary plan and the individual tasks were discussed:

### 1.1 BCDS

*M. Pedrozzi:*

- They got green light to hire one postdoc before signature of the EU contract. He will develop simulations in the design of a bunch compressor compatible with multi-TeV centre-of-mass energies. Nevertheless, still a few months are necessary to collect software and documentation.
- They are preparing the document for the workplan.
- At this point, *Nick* suggested to contact people from SLAC, Cornell and LBL, who are collaborating in the design of the bunch compressor for the ILC.

### 1.2 PCDL

*V. Ziemann, A. Faus-Golfe and P. Bambade:*

- At Uppsala 1/2 person to be hired in March for integrated luminosity beam studies.
- Use an interface to the codes BDSIM (G. Blair) and GINEA-PIG (D. Schulte).

- The study of the old TESLA and NLC post collision line designs can help to develop a CLIC post collision line.
- The addition of diagnostics into the simulations is being investigated.
- At LAL 1 postdoc, *Olivier Dadoan*, has been recently hired to work together *Philippe* and *Robert* on the post collision line.
- *Angeles* will contact with *Philippe* to coordinate the starting in March of a new doctoral student.

### 1.3 BBSIM

*Ph. Bambade:*

- A new postdoc, *Cécile Amelie Rimbault*, will start working in February on beam-beam simulations code. They want to verify the pair production through equivalent photons approximation (basic abelian approximation).
- *Daniel* reminded that the Bhabha scattering is implemented on GUINEA-PIG.

### 1.4 HTGEN

*Daniel (Helmut Burkhardt excused):* There is one candidate for one fellow position to develop models of halo and tail of the beam in linear colliders. *Helmut* has already prepared a plan.

### 1.5 COLSIM

*G. Blair:*

- Has announced a BDSIM code public web page.
- It was pointed out that the present collimation system designs for ILC and CLIC are similar that used for NLC (passive protection).
- *Nick* said that the collimation system for ILC is difficult due to the long bunch train. It would be interesting to find out if a design that does not rely on renewable or rotating collimators is feasible, as non-linear collimation systems. At this point, *Nick* said that a non-linear design for TESLA, which includes octupoles, generates several optics aberrations.
- *Angeles* mentioned that a nonlinear collimation system for CLIC is being studied by *Javier*, trying a betatron and energy collimation at the same time.

- Organization of a collimation meeting by *Grahame* on 15th February. The potential to design a new collimation system for ILC will be discussed.

## 1.6 FMSIM

*N. Walker:*

- Mentioned that the hiring of new workers is going well and will contact *Daniel* to coordinate the workplan.

## 1.7 LAST

*D. Schulte* and *N. Walker* (*P. Burrows* excused):

- Stressed the importance of introducing horizontal feedback effects in the crab crossing scheme.
- *Phil* should call for a meeting.

It was agreed that lattices used by the different tasks will be made available on the task web pages.

The next EUROTeV meeting will be the 9th of February. The system for the connection, Phone meeting or VRVS, is not yet defined.