

12. Accelerator Systems WebEx Conference 26 September 2008, 13:00 GMT

Minutes (v1.0)

Attending: J. Carwardine, J. Clarke, F. Lehner (minutes), T. Omori, E. Paterson, N. Toge, J. Urakawa, A. Wolski

All slides are available on the indico site

<http://ilcagenda.linearcollider.org/conferenceDisplay.py?confId=3080>

1. General Announcements

Ewan reported from the PAC Review meeting (19/20 October) held at LPNHE in Paris. As regards the machine system positive statements in general by the committee were received. The committee however, wants to be conservative on the minimum machine design and wants to make sure that the GDE understands and addresses all the impacts in a proper way. A report from the PAC review will be also given at the ILCSC meeting at SLAC next week.

2. Short status report by TAGLs

2.1. Positron Source – Jim Clarke

Jim announced the ILC positron source meeting that will take place on 29-31 October 2008 at the Cockcroft Institute in Daresbury to discuss progress with R&D work and integration studies. Nick and Marc will both attend. A special talk on the minimum machine will be given by Nick.

2.2 Damping Ring – A. Wolski

Andy mentioned CESR-TA preparation work that is on schedule to be ready for data taking with commissioning runs starting this month. Progress was reported to further develop the engineering model of one arc cell for the Damping Ring. Counter-rotating beams as discussed in the last meeting seem to be a reasonable and practicable solution. More discussions will follow at ILC '08.

2.3 Simulations – K. Kubo (slides available)

Ewan summarized quickly the slides by Kiyoshi. The wakefields from couplers and RF kicks due to asymmetries in Main Linac are much weaker than originally anticipated.

3. Draft on Minimum Machine – Ewan (draft attached)

There was not much discussion on the draft. The attendees viewed it as a positive and powerful document. TAGs were reminded to provide relevant

sections of the draft with detailed plans and scope of minimum machine studies. During ILC '08 studies need to be developed and prioritized. The final draft will have to be ready before Christmas. Andy reminded that some configuration studies on 3km Damping Rings were done in 2005.

Finally, Ewan pointed out that -despite the minimum machine concept- the reference design report still describes and de-facto is our reference and standard to which comparisons are done. It is important to understand this, in order to avoid confusions, particularly if people are looking only from an outside view.

4. CLIC meeting - all

Junji reported from the CLIC '08 collaboration meeting that was held from 14-17 October at CERN. It is planned to set up two new working groups - on positron source and damping rings as part of the CLIC-ILC collaboration. Common issues are identified and need further to be worked out. The electron cloud topic for instance, offers large overlap with synergies between CLIC and ILC. Although the beam parameters are different, the mitigation effects are similar.

Nobu reported that more than 200 people attended the CLIC workshop. He summarized the present status and goals of the CTF3 facility towards a CDR in 2010. There is a further upgrade path towards a CTF4 facility in a multi-year program. Obviously, CERN seems to contribute with 250 MCHF and 1000 FTEs over 6 years – but these numbers are not confirmed.

John pointed out that the technical challenges at CLIC are substantial and they have not yet demonstrated the proof of principle. However, there is a lot of interest in the community.

5. A.o.B.

The future scheduled AS-TAGL meetings are:

- There will be no meeting on Friday, 14 November 2008
- ILC08 – 17-21 November 2008, UIC
- Friday, 12 December 2008 13:00 GMT
 - Final complete draft – submission to EC

Attachments

- 1. Slides Kiyoshi Kubo - Simulations**
- 2. Slides Nick Walker – Minimum Machine Draft**