

Minutes of ILC@DESY project meeting

Date: Friday, 13 May 2005, 10:00 a.m.

Chair: N. Walker

The meeting opened with general comments and announcements. NW noted that many were away to attend PAC 05. There were two announcements regarding future events:

1) Snowmass organization: NW reported that there was a Working Group convenors' video meeting which was fruitful; The next one, in the series, ahead of the preparation for Snowmass, will be by the end of May.

2) ILC-European Regional Meeting in Royal Holloway, University of London, from 20-23 June, 2005. Members were encouraged to register and participate in this event.

Afterwards, Lutz Lilje delivered an informative presentation on 'Module 6 Cavities for the TTF'. Technology issues, addressed for the ILC, are, to a great extent, solved for a cavity gradient of $\sim 25\text{MV/m}$; This is the result of a successful R & D program for TESLA:

- 6 etched cavities reached 30 MV/m
- At this energy, dark current issues are under control (plots were presented)

However, additional R&D is needed for gradients in excess of 30MV/m needed for the $\sim 1\text{ TeV}$ upgrade. The gradients have been reached with several electro-polished cavities, but more statistics are still required.

It is currently planned to construct Module 6 from eight high-performance electro-polished cavities with gradients in excess of 30MV/m (the goal is 35MV/m operationally). The current schedule has this module due for installation in the TTF linac in August 2006. The module should be tested in the new Module Test Stand for at least one to two months before that.

Lilje presented a summary status of parts for module 6. Then, there was a discussion on schedule for construction, testing and assembly of the cavities:

- i) It is very likely that module will be complete before the end of 2005. a timeline between now and March next year is more realistic.
- ii) There is currently discussion as to whether Module 7 (TTF injector spare) should be constructed before Module 6.
- iii) There was a comment on the need high-power test the cavities before module construction (CHECHIA tests). It was agreed that the program should have clear aim and focus.
- iv) Carlo Pagani emphasized the need to set up priorities and plan in accordance to a set deadline. There was also concern that this important ILC milestone module may suffer if the installation schedule for the TTF linac is allowed to set the priorities.

Next meeting: Two weeks before 'ILC-European Regional Meeting'