

LCB MEETING

6 July 2014
Valencia, Spain

1. Linear Collider Overview

Lyn Evans gave an overview of the Linear Collider status. ATF2 has achieved a 45 nm beam; average maximum cavity gradients are 32.8 ± 4.9 MV/m, with average useable gradients of 29.3 ± 5.1 MV/m; there has been a breakthrough at Fermilab on Q0. Evans said that LCB needs to discuss the issue of ILC energy-staging. The Japan Science Council has requested a study of the ILC's scientific and economic impact, and the LCC will provide information through KEK. Evans said current LCC planning was to build the initial ILC tunnel for 500 GeV, and with the reference design of 500 GeV.

2. ILC Status

The KEK ILC project office is now operating. LCC is studying the tunnel layout as given in the TDR, and making site-specific modifications and modifications to meet Japanese regulations as well as also the regulations of visitors from other labs and countries.

3. CLIC Status

A plan for staged implementation of CLIC will be developed taking LHC results into consideration. A cost versus bunch charge relation will be produced for 360 GeV; a current estimate is 7-8 BSF for a 0.5 TeV CLIC. There is increasing interest in applications of CLIC technology to other fields such as light sources, and commercial 12 GHz klystron systems are becoming available.

4. Linear Collider Detector Status

The ILC Parameters Joint Working Group, which now includes ILC accelerator members, is preparing information on ILC parameters and several options for staging up to 500 GeV. A Physics and Detector Advisory Panel is being formed, with Paul Grannis as Chair.

5. Discussion on Current ILC Activities in Japan

MEXT has established an "Expert Committee" of 13 members to have meetings open to the public and to produce a report by 31 March 2016. This group will study total ILC cost, human resources, the Japanese domestic ILC organization, and the social and

economic impact of the ILC in Japan. Good communication among LCC/LCB, the KEK ILC project office, and MEXT is essential for progress on a Japan-hosted ILC.

It was recognized that the particle physics community needs to have input on ILC staging and ILC parameters, and this should be a goal of the Belgrade LCWS in October 2014. To do this, LCC needs to provide a scenario to LCB so that it can then be provided to the community for initial discussion.