

LCB MEETING
19 August 2015
Ljubljana, Slovenia

ILC Progress in Japan

There was extensive LCB discussion of a recently issued report “Summary of the International Linear Collider (ILC) Advisory Panel’s Discussions to Date” by a panel advising the Japanese government’s MEXT ministry. The Panel’s recommendations include the requirement to share costs internationally; the need for a clear vision on the discovery potential for new particles; the need to monitor closely LHC Run II data; the need to mitigate project cost risk; and the need to have public and science community understanding of the project. ICFA subsequently sent a short letter thanking the Panel, with a more detailed document to clarify some of the issues raised to be submitted by the end of 2016.

MEXT has asked the Japanese company Nomura to survey the technical feasibility of the ILC accelerator, the technical issues expected in mass production of components, and possible cost reduction efforts.

ILC Accelerator Status

Mike Harrison reported that Nomura is asking for LCC help in their new study, and the LCC’s recent document “The International Linear Collider Progress Report” was produced to help Nomura.

Harrison said that the only ILC technical issue not yet demonstrated is positron production; however, a conventional source is under development as a backup, although a conventional source provides zero polarization. A list of change requests to the TDR accelerator design was presented, and the status of decisions on each of them was given.

At ATF2, the IP beam size is almost as small as the ILC specification, although this is still at low intensity.

CLIC Status

The CLIC status and plans were described by Steinar Stapnes; a possible scenario is:

2013-2018: development phase

2018-2019: decisions

Preparation phase (4-5 years)

2024: construction start

Over the past year there have been studies of a first stage CLIC of $E_{cm} = 380$ GeV for Higgs and top physics. CTF3 will close by the end of 2016. Many labs are interested in XFELs using X-band technology.

Linear Collider Detector Status

Hitoshi Yamamoto reported that the H20 running scenario, previously approved by the LCB, is now the standard scenario, although the actual running scenario of an operating ILC will of course depend on LHC and ILC physics results. Two documents, "ILC Operating Scenarios" and "Physics Case for the International Linear Collider", are now standard ILC references.

Subcommittee 1 on Linear Collider Governance

The LCC's Project Implementation Planning (PIP) document on governance of a future ILC lab was approved by the LCB; it is now publically available and available to Japanese government bodies dealing with the ILC. The document again notes that it expresses the views of scientists and is not meant to pre-empt the role of governments in setting the ILC governance policies.

Reports

Presentations were made on linear collider activities in Asia, the Americas, and Europe.